

Regional Health Status Indicators Western Massachusetts



Deval L. Patrick, Governor
Timothy P. Murray, Lieutenant Governor
Judyann Bigby, MD, Secretary of Health and Human Services
John Auerbach, Commissioner, Department of Public Health

Jerry O'Keefe, Associate Commissioner
Health Information, Statistics, Research, and Evaluation Bureau
Bruce Cohen, Director
Division of Research and Epidemiology

Massachusetts Department of Public Health

June 2007

ACKNOWLEDGEMENTS

This report was prepared by Isabel Caceres, MS, Malena Orejuela-Hood, MPH, and James West, PhD of the Division of Research and Epidemiology and by Lauren Wooley, MPH, of the Health Survey Program, Center for Health Information, Statistics, Research, and Evaluation.

Special thanks go to Bruce Cohen, PhD, Director of the Division of Research and Epidemiology, and to all of the DPH Bureaus who have contributed to this report.

To obtain additional copies of this report, contact:

Massachusetts Department of Public Health
Health Information, Statistics, Research and Evaluation Bureau
250 Washington Street, 6th Floor
Boston, MA 02108

This and other Department of Public Health publications can be downloaded from the following website:

<http://www.mass.gov/dph/resep>

To obtain more information on the health of Massachusetts and other Department of Public Health data:

Register for the Department's free, Internet-based public health information service, MassCHIP, via the website at:

<http://masschip.state.ma.us>

Or call 888-MAS-CHIP (toll free in MA) or 617-624-5629

TABLE OF CONTENTS

NOTE TO READERS.....	15
INTRODUCTION.....	17
Goals for holding Regional Dialogues	19
Goals of New DPH Leadership	19
Timetable	20
SOCIODEMOGRAPHIC INDICATORS	21
Executive Office of health and Human Services Regions	23
Massachusetts Counties & EOHHS Region.....	23
Comments about the Limitations of this presentation.....	24
2005 Population in Communities, Western Region: 2005	24
Race and Ethnic Breakdown of Population, Western Region and Massachusetts: 2005	25
Race and Ethnic Breakdown of Population, Western Region and Massachusetts: 2005	25
Population by Age Group, Western Region and Massachusetts: 2005.....	26
Population by Age Group, Western Region and Massachusetts: 2005.....	26
Population by Age Group, Western Region and Massachusetts: 2005.....	27
Language Spoken at Home, Western Region and Massachusetts: 2000	27
Language Spoken at Home, Largest Cities, Western Region and Massachusetts: 2000	28
Language Spoken at Home, Western Region and Massachusetts: 2000	28
Highest and Lowest per Capita Income by Communities, Berkshires: 2000	29
Spanish Spoken at Home, Western Region: 2000	29
Socio-Demographic Indicators Western Region and Massachusetts: 2000	30
Socio-Demographic Indicators Largest Cities, Western Region and Massachusetts	30
Highest and Lowest per Capita Income by Communities, Western Region: 2000	31
HEALTH CARE ACCESS.....	33
Adults who Have No Health Insurance by EOHHS Region, Massachusetts: 2005 ...	35
Adults who Have No Health Insurance by Race and Ethnicity, Western Region and Massachusetts: 2005	35
Health Insurance Access, Western Region and Massachusetts: 2005	36
Summary Indicators for Health Insurance by EOHHS Regions, Massachusetts: 2005	36
BIRTH INDICATORS	37
Infant Mortality Rate (IMR) Western Region and Massachusetts: 1990-2005.....	39
Infant Mortality Rate by EOHHS Region and Massachusetts: 2002-2005	39
Infant Mortality Rates by Race/Ethnicity, Western Region and Massachusetts: 2002- 2005	40
Highest Infant Mortality Rates Among the 30 Largest Communities, Massachusetts: 2005	40

Infant Mortality Rate (IMR) Springfield: 1990-2005.....	41
Highest Infant Mortality Rate Among the 30 Largest Communities, Massachusetts 2003-2005	41
Infant Mortality Rates by Race/Ethnicity, Largest Cities in Western Region and Massachusetts: 2002-2005	42
Low Birthweight, Western Region and Massachusetts: 1990-2005	42
Low Birthweight by EOHHS Region, Massachusetts: 2005	43
Low Birthweight by Race and Ethnicity, Western Region and Massachusetts: 2005	43
Percent of Mothers Breastfeeding Western Region, Massachusetts: 1990-2005	44
Breastfeeding by EOHHS Region, Massachusetts: 2005.....	44
Breastfeeding by EOHHS Region Largest Cities in Western Region, Massachusetts: 2005	45
Breastfeeding by EOHHS Region Largest Cities in Western Region, Massachusetts: 2005	45
Breastfeeding by Race and Ethnicity, Western Region and Massachusetts: 2005 ...	46
Teen Birth Rates, Western Region and Massachusetts: 1990-2005	46
Teen Birth Rates by EOHHS Region, Massachusetts: 2005.....	47
Teen Birth Rates by EOHHS Region, Massachusetts: 2005.....	47
Teen Birth Rates by City/Town, Western Region: 2005	48
Teen Birth Rates by Race/Ethnicity, Western Region and Massachusetts: 2005	48
Teen Birth Rates by Race/Ethnicity, Berkshires and Massachusetts: 2005	49
Adequate Prenatal Care Western Region, Massachusetts: 1990-2005	49
Adequate Prenatal Care by EOHHS Regions, Massachusetts: 2005	50
Public Source of Payment for Prenatal Care, Western Region and Massachusetts: 1990- 2005	50
Public Source of Payment for Prenatal Care, Western and Massachusetts: 2005....	51
Infants Delivered by C-Section, Western Region and Massachusetts: 1990-2005 ...	51
Infants Delivered by C-Section by EOHHS Regions, Massachusetts: 2005.....	52
Infants Delivered by C-Section by EOHHS Regions, Massachusetts: 2005.....	52
Summary of Birth Indicators by EOHHS Regions, Massachusetts: 2005.....	53
Summary of Birth Indicators by Community, in Western Region, Massachusetts: 2005	53
Summary of Birth Indicators by EOHHS Regions	54
Summary of Birth Indicators by EOHHS Regions	54
LEADING CAUSES OF DEATH	55
Leading Causes of Death, Western Region and Massachusetts: 2005	57
Leading Causes of Death, Berkshires and Massachusetts: 2005	57
CHRONIC DISEASE OUTCOMES AND OVERWEIGHT/OBESITY	59
Thresholds for Defining Overweight and Obesity	61
Adults who are Overweight by EOHHS Region, Massachusetts: 1995 & 2005.....	61
Adults who are Obese by EOHHS Region, Massachusetts: 1995 & 2005	62
Adults who are Obese by EOHHS Region, Massachusetts : 2005	62
Adult Obesity by Race and Ethnicity, Western Region and Massachusetts: 2005	63

Adults who Participate in Regular Physical Activity by EOHHS Region, Massachusetts: 2005	63
Adults who have 5+ Servings of Fruit or Vegetables by EOHHS Region, Massachusetts: 2005	64
Adults who had their Cholesterol Checked in Past 5 Years by EOHHS Region, Massachusetts: 2005	64
Adults who were Told by Health Care Provider that they had High Cholesterol, by EOHHS Region, Massachusetts: 2005	65
Adults who were Told by a Health Care Provider they have High Blood Pressure, by EOHHS Region, Massachusetts: 2005	65
Adults who take Medicine for High Blood Pressure, by EOHHS Region, Massachusetts : 2005	66
Hypertension Hospital Discharges by EOHHS Region, Massachusetts: 2003-2005	66
Hypertension Hospital Discharge Rates by Race/Ethnicity, Western Region, Massachusetts: 2003-2005	67
Heart Disease Mortality Rates by EOHHS Region, Massachusetts: 2003-2005	67
Heart Disease Death Rates by Race/Ethnicity, Western Region and Massachusetts : 2003-2005	68
Diabetes Hospital Discharge Rates by EOHHS Region, Massachusetts: 2003-2005	68
Diabetes Hospital Discharge Rates by EOHHS and Berkshires, and Pittsfield Massachusetts: 2003-2005	69
Diabetes Hospital Discharge Rates Largest Cities, Western Region: 2003-2005	69
Diabetes Hospital Discharge Rates by Race/Ethnicity, Western Region, Massachusetts: 2003-2005	70
Diabetes Hospital Discharge Rates by Race/Ethnicity, Berkshires, Pittsfield, & Massachusetts: 2003-2005	70
Diabetes Mortality Rates by EOHHS Region, Massachusetts: 2003-2005	71
Diabetes Death Rates by Race/Ethnicity, Western Region and Massachusetts : 2003-2005	71
Summary Indicators for Overweight/Obesity, by EOHHS Regions, Massachusetts : 2005	72
Summary Indicators for Chronic Disease Outcomes for Overweight/Obesity by EOHHS Regions	72
Summary Indicators for Chronic Disease Outcomes for Overweight/Obesity, Communities in Western Region: 2003-2005	73
Summary Indicators for Chronic Disease Outcomes for Overweight/Obesity For Berkshires, Western Region, Massachusetts 2003-2005	73
CANCER.....	75
Adults Ages 50+ who have had a Sigmoidoscopy or Colonoscopy in Past 5 Years by EOHHS Regions, Massachusetts: 2005	77
Incidence Rates for Invasive Colorectal Cancer by EOHHS Region, Massachusetts: 1990-2003	77
Incidence Rates for Early Stage Colorectal Cancer, Males, by EOHHS Region, Massachusetts: 1999-2003	78

Incidence Rates for Early Stage Colorectal Cancer, Females, by EOHHS Region, Massachusetts: 1999-2003	78
Colorectal Cancer Mortality Rates by EOHHS Region, Massachusetts: 2005	79
Men Ages 50+ who had a Prostate-Specific Antigen Test in the Past 2 years by EOHHS Region, Massachusetts: 2004	79
Men Ages 50+ who had a Digital Rectal Exam in the Past Two Years by EOHHS Region, Massachusetts: 2004	80
Adults Ages 50+ who had a Blood Stool Test in the Past Two Years by EOHHS Region, Massachusetts: 2005	80
Incidence Rates for Invasive Prostate Cancer by EOHHS Region, Massachusetts: 1999- 2003	81
Incidence Rates for Early Stage Prostate Cancer by EOHHS Region, Massachusetts: 1999-2003	81
Prostate Cancer Mortality Rates by EOHHS Region, Massachusetts: 2005	82
Women Ages 40+ who had a Clinical Breast Exam in the Past Two Years by EOHHS Region, Massachusetts: 2004	82
Women who had a Clinical Breast Exam in the Past Two Years by Race and Ethnicity, Western Region and Massachusetts : 2004	83
Women Ages 40+ who have had a Mammography in Past 2 Years by EOHHS Region, Massachusetts: 2005	83
Incidence Rates for Invasive Female Breast Cancer by EOHHS Region, Massachusetts: 1999-2003	84
Incidence Rates for Early Stage Female Breast Cancer by EOHHS Region, Massachusetts : 1999-2003	84
Female Breast Cancer Mortality Rates by EOHHS Region, Massachusetts : 2005 ..	85
Adults who Currently Smoke by EOHHS Regions and Massachusetts: 2005	85
Adults who Currently Smoke by EOHHS Regions and Berkshires, Massachusetts: 2005	86
Current Smoker by Race and Ethnicity, Western Region and Massachusetts: 2005 ..	86
Percent of Mothers Smoking During Pregnancy for Largest Communities, Western Region: 2005	87
Smoking During Pregnancy, Western Region and Massachusetts: 1990-2005	87
Smoking During Pregnancy by Race and Ethnicity, Berkshires, Western Region and Massachusetts: 2005	88
Incidence Rates for Early Stage Lung Cancer, Males, by EOHHS Region, Massachusetts : 1999-2003	88
Incidence Rates for Early Stage Lung Cancer, Females, by EOHHS Region, Massachusetts: 1999-2003	89
Lung Cancer Mortality Rates by EOHHS Region, Massachusetts : 2005	89
Incidence Rates for Invasive Lung Cancer by EOHHS Region, Massachusetts: 1999-2003	90
Summary Indicators for Cancer Screening by EOHHS Regions, Massachusetts: 2005	90
Summary Cancer Indicators (Early Stage) by EOHHS Regions, Massachusetts: 1999- 2003	91

Summary Cancer Indicators (Late Stage) by EOHHS Regions, Massachusetts: 1999-2003	91
Summary Invasive Cancer Incidence Rates by EOHHS Regions, Massachusetts: 1999 - 2003	92
Summary Invasive Cancer Incidence Rates, Communities In Western Region: 1999 - 2003	92
Summary Invasive Cancer Incidence Rates, Western Region, Massachusetts: 1999 - 2003	93
Summary Cancer Mortality Indicators by EOHHS Regions, Massachusetts: 2005 ...	93
Summary Cancer Mortality Rates, Communities in the Western Region	94
Summary Cancer Mortality Rates, Berkshires, Western Region, Massachusetts: 1999 - 2003	94
SUBSTANCE ABUSE	95
Alcohol Use in Past Month, Persons Aged 12 to 20 Years, by EOHHS Region, Massachusetts : 2002-2004	97
Binge Drinking in Past Month, Persons Aged 12 to 20 Years, by EOHHS Region, Massachusetts : 2002-2004	97
Any Illicit Drug Use in Past Month, Persons Aged 12+ Years, by EOHHS Region, Massachusetts: 2002-2004	98
Any Illicit Drug Use Other Than Marijuana use in Past Month, Persons Aged 12+ Years, by EOHHS Region, Massachusetts: 2002-2004	98
Alcohol Dependence or Abuse in Past Year, Persons Aged 12+ Years, by EOHHS Region, Massachusetts : 2002-2004	99
Dependence or Abuse of Any Illicit Drug or Alcohol in Past Year, Persons Aged 12+ Years by EOHHS Region, Massachusetts : 2002-2004	99
Adults who Binge Drink, by EOHHS Region, Massachusetts : 2005.....	100
Adults who Used Illicit Drugs in Past Month by EOHHS Region, Massachusetts : 2005	100
Substance Abuse Treatment Program Admissions by EOHHS Region, Massachusetts : 2005	101
Substance Abuse Treatment Program Admissions, Alcohol Primary Substance, by Largest Cities, Western Region : 2005.....	101
Substance Abuse Treatment Program Admissions, Alcohol Primary Substance, by EOHHS Region, Massachusetts : 2005	102
Substance Abuse Treatment Program Admissions, Alcohol Primary Substance, by Race and Ethnicity, Berkshires and Massachusetts : 2005.....	102
Substance Abuse Treatment Program Admissions, Cocaine Primary Substance, by EOHHS Region, Massachusetts : 2005	103
Substance Abuse Treatment Program Admissions, Heroin Primary Substance, by EOHHS Region, Massachusetts : 2005	103
Substance Abuse Treatment Program Admissions, Heroin Primary Substance, by EOHHS Region and Berkshires, Massachusetts : 2005	104
Opioid-related Emergency Visit Rates by EOHHS Region, Massachusetts : 2003-2005	104

Opioid-related Emergency Visit Rates by Largest Cities in Western Region, Massachusetts : 2003-2005	105
Opioid-related Emergency Visit Rates by Race and Ethnicity Western Region, Massachusetts : 2003-2005	105
Massachusetts City and Town FY03-05, Total Number of Opioid Overdose Related Deaths.....	106
Massachusetts City and Town FY03-05, Total Number of Opioid Overdose Related Deaths.....	106
Opioid-Related Fatal Overdoses by EOHHS Region, Massachusetts : 2003-2005	107
Opioid-Related Fatal Overdoses by Race/Ethnicity, Western Region and Massachusetts : 2003-2005	107
Massachusetts City and Town FY03-05, Total Number of Poly-Drug Overdose related Deaths.....	108
Massachusetts City and Town FY03-05, Total Number of Poly-Drug Overdose related Deaths.....	108
Summary Substance Abuse Indicators Percentages by EOHHS Regions.....	109
Summary Substance Abuse Indicators by EOHHS Region, Massachusetts: 2005.	109
Summary Substance Abuse Indicators Communities in the Western Region:2005	110
Summary Substance Abuse Indicators Berkshires, Western Region, and Massachusetts: 2005	110
Summary Opioid Indicators by EOHHS Regions, Massachusetts: 2003-2005.....	111
Summary Opioid Indicators, Communities in Western Region, Massachusetts: 2003-2005	111
INJURY, VIOLENCE AND OCCUPATIONAL HEALTH.....	113
Causes of Injury Deaths, Western Region and Massachusetts: 2005.....	115
Injury-Related Hospital Discharge Rates by EOHHS Region, Massachusetts: 2003-2005	115
Injury-Related Hospital Discharge Rates by Race and Ethnicity, Western Region and Massachusetts: 2003-2005	116
Emergency Department Visit Rates for Injuries and Poisonings by EOHHS Region, Massachusetts : 2003-2005	116
Emergency Department Visit Rates for Injuries & Poisonings by Race/Ethnicity, Western Region and Massachusetts : 2003-2005.....	117
Hospital Discharge Rates for Traumatic Brain Injuries by EOHHS Region, Massachusetts : 2003-2005	117
Hospital Discharge Rates for Traumatic Brain Injury by Race/Ethnicity, Western Region and Massachusetts : 2003-2005	118
Emergency Department Visit Rates for Traumatic Brain Injury, by EOHHS Region, Massachusetts : 2003-2005	118
Emergency Department Visit Rates for Traumatic Brain Injury by Race/Ethnicity, Western Region and Massachusetts : 2003-2005.....	119
Injury Death Rates by EOHHS Region, Massachusetts: 2003-2005	119
Injury Death Rates by Race/Ethnicity, Western Region and Massachusetts: 2003-2005	120
Homicide Rates by EOHHS Region, Massachusetts : 2003-2005	120

Homicide Rates by Race and Ethnicity, Western Region and Massachusetts: 2003-2005	121
Hospital Discharge Rates for Self-Inflicted Injury, by EOHHS Region, Massachusetts : 2003-2005	121
Hospital Discharge Rates for Self-Inflicted Injury, by EOHHS Region, Massachusetts : 2003-2005	122
Hospital Discharge Rates for Self-Inflicted Injuries by Race/Ethnicity, Western Region and Massachusetts: 2003-2005	122
Suicide by EOHHS Region, Massachusetts: 2003-2005	123
Suicide Rates by Race and Ethnicity, Western Region and Massachusetts: 2003-2005	123
Hospital Discharge Rates for Motor Vehicle-Related Injuries by EOHHS Region and Massachusetts : 2003-2005	124
Hospital Discharge Rates for Motor Vehicle-Related Injuries by EOHHS Region, Berkshires, and Pittsfield, Massachusetts : 2003-2005	124
Hospital Discharge Rates for Motor Vehicle-Related Injuries by Largest Cities in Western Region, Massachusetts : 2003-2005	125
Hospital Discharge Rates for Motor Vehicle-Related Injuries by Race/Ethnicity, Western Region and Massachusetts: 2003-2005	125
Motor Vehicle-Related Mortality Rates by EOHHS Region, Massachusetts : 2003-2005	126
Hospital Discharge Rates for Motor Vehicle-Related Injuries by Race/Ethnicity, Western Region, Berkshires and Massachusetts: 2003-2005	126
Emergency Department Visit Rates for Firearm Injuries, by EOHHS Region, Massachusetts: 2003-2005	127
Emergency Department Visit Rates for Firearm Injuries, Largest Cities in Western Region, Massachusetts: 2003-2005	127
Emergency Department Visit Rates for Firearm Injuries by Race/Ethnicity, Western Region and Massachusetts: 2003-2005	128
Firearm Death Rates by EOHHS Region, Massachusetts: 2003-2005	128
Firearm Death Rates by Race/Ethnicity, Western Region and Massachusetts: 2003-2005	129
Hospital Discharge Rates for Fall-Related Injuries, by EOHHS Region, Massachusetts : 2003-2005	129
Hospital Discharge Rates for Fall-Related Injuries by Race/Ethnicity, Western Region and Massachusetts : 2005	130
Emergency Department Visit Rates for Fall-Related Injuries, by EOHHS Region, Massachusetts : 2003-2005	130
Emergency Department Visit Rates for Fall-Related Injuries by Race/Ethnicity, Western Region and Massachusetts : 2003-2005	131
Fall-Related Injury Death Rates by EOHHS Region, Massachusetts : 2003-2005 ..	131
Fall-Related Injury Death Rates by Race/Ethnicity, Western Region and Massachusetts : 2003-2005	132
Fall-related Injury Death Rates, Persons 65+ years, by EOHHS Region, Massachusetts : 2003-2005	132

Hospital Discharge Rates for Assaults, by EOHHS Region, Massachusetts: 2003-2005	133
Hospital Discharge Rates for Assaults by Race/Ethnicity, Western Region and Massachusetts: 2003-2005	133
Work-related Injuries, Emergency Department Visits per 100 Full Time Equivalents, Massachusetts Counties: 2004-2005	134
Work-related Injuries among Teens, Emergency Department Visits per 100 Full Time Equivalents, Massachusetts Counties: 2004-2005.....	134
Work-related Burn Injuries, Emergency Department Visits per 10,000 Full Time Equivalents, Massachusetts Counties: 2004-2005.....	135
Work-related Amputations, Emergency Department Visits per 10,000 Full Time Equivalents, Massachusetts: 2004-2005.....	135
Work-related Injuries, Hospitalizations per 10,000 Full Time Equivalents, Massachusetts Counties: 2004-2005	136
Number and Rate of Fatal Occupational Injuries by year, Massachusetts: 1991-2005	136
Summary Injury/Violence Hospitalization Indicators by EOHHS Regions, Massachusetts : 2003-2005	137
Summary Injury/Violence Hospitalization Indicators, Communities in Western Region: 2003-2005	137
Summary Injury/Violence Hospitalization Indicators Berkshires, Western Region and Massachusetts : 2003-2005	138
Summary Injury/Violence Emergency Department Indicators by Communities in Western Region: 2003-2005	138
Summary Injury/Violence Emergency Department Indicators Communities in Western Region: 2003-2005.....	139
Summary Injury/Violence Emergency Department Indicators Berkshires, Western Region and Massachusetts : 2003-2005.....	139
Summary Injury/Violence Mortality Rates by EOHHS Regions, Massachusetts : 2003-2005	140
Summary Injury/Violence Mortality Indicators Communities in Western Region: 2003-2005	140
Summary Injury/Violence Mortality Indicators Berkshires, Western Region and Massachusetts : 2003-2005	141
HIV/AIDS.....	143
Persons Living with HIV, by EOHHS Region, Massachusetts: 2005.....	145
HIV Incidence, by EOHHS Region, Massachusetts: 2005	145
AIDS Incidence, by EOHHS Region, Massachusetts: 2005	146
Persons Living with AIDS, by EOHHS Region, Massachusetts : 2005	146
HIV/AIDS Death Rates, by EOHHS Region, Massachusetts : 2003-2005	147
HIV/AIDS Death Rates by Largest Communities Western Region: 2003 - 2005.....	147
HIV/AIDS Death Rates by Race and Ethnicity, Western Region and Massachusetts: 2003 - 2005	148
Summary HIV/AIDS Indicators by EOHHS Regions	148
Summary HIV/AIDS Indicators Communities in Western Region.....	149

Summary HIV/AIDS Indicators Communities in Western Region	149
INFECTIOUS DISEASES	151
Chlamydia Incidence, Western Region and Massachusetts : 1989-2005.....	153
Chlamydia Incidence by EOHHS Region, Massachusetts: 2005	153
Chlamydia Incidence Rate by Emergency Preparation Region, 2006	154
Gonorrhea Incidence by EOHHS Region, Massachusetts : 2005	154
Syphilis Incidence, Western Region and Massachusetts : 1989-2005	155
Syphilis Incidence, by EOHHS Region, Massachusetts : 2005	155
Tuberculosis Incidence, by EOHHS Region, Massachusetts : 2004	156
Tuberculosis Incidence, by EOHHS Region, Massachusetts : 2006	156
Confirmed Tuberculosis Cases by Race/Ethnicity and EOHHS Region, Massachusetts: 2006	157
Percent Confirmed Tuberculosis Cases by EOHHS Region, Massachusetts : 2006	157
Percent of Confirmed Tuberculosis Cases by Race/Ethnicity and EOHHS Region, Massachusetts : 2006	158
Tuberculosis Cases by EOHHS Region, Massachusetts : 1993-2006	158
Percent of Confirmed Tuberculosis Cases by Race/Ethnicity and EOHHS Region, Massachusetts : 2006	159
Hepatitis C Average Incidence Rates, by EOHHS Region, Massachusetts: 1992- 2006	159
Massachusetts Hepatitis C Infection Average per Year, by Town, 1992-2006.....	160
Hepatitis C Incidence Rates, by EOHHS Region, Massachusetts : 2006.....	160
Massachusetts Hepatitis C Infection Average per Year, by Town, 2006	161
Lyme Disease Incidence by EOHHS Region and Massachusetts: 2004.....	161
Massachusetts Lyme Disease Case Rates, by Town, 2005.....	162
Pneumonia and Influenza Hospital Discharges by EOHHS Region, Massachusetts: 2005	162
Summary Infectious Disease Indicators, by EOHHS Regions.....	163
Summary Infectious Disease Indicators Communities in Western Region	163
Summary Infectious Disease Indicators Communities in Western Region	164
ASTHMA.....	165
Asthma Hospital Discharges by EOHHS Region, Massachusetts: 2005.....	167
Asthma Emergency Department Visits, by EOHHS Region, Massachusetts: 2005	167
Emergency Department Visit Rates for Asthma by Race/Ethnicity, Western Region and Massachusetts: 2005	168
Adults who Currently have Asthma by EOHHS Region, Massachusetts: 2005.....	168
Asthma ER Visits, Children Ages 0-4, by EOHHS Region, Massachusetts : 2005 .	169
Asthma ER Visits, Children Ages 5-9, by EOHHS Region, Massachusetts : 2005 .	169
Asthma ER Visits, Children Ages 10-14, by EOHHS Region, Massachusetts : 2005	170
Asthma ER Visits, Children Ages 0-14, by EOHHS Region, Massachusetts : 2005	170
Asthma ER Visits, Children Ages 0-14, by EOHHS Region, Massachusetts : 2005	171
Asthma ER Visits, Children Ages 0-14, Largest Cities, Western Region: 2005.....	171

Asthma Emergency Department Visit Rates, Children ages 0-14, Western Region and Massachusetts : 2005	172
Asthma Emergency Department Visit Rates, Children ages 0-14, Berkshires and Massachusetts : 2005	173
Pediatric Asthma Prevalence by EOHHS Region, Massachusetts : 2005-2006.....	173
Pediatric (Ages <5) Asthma ER Visit Rates by Community, Massachusetts : 2005-2006	174
Pediatric (Ages <5) Asthma ER Visit Rates by Community, Western Region, Massachusetts : 2005-2006	174
Pediatric (Ages <5) Asthma Hospitalization Rates by Community, Western Region, Massachusetts : 2005-2006	175
Summary Asthma Indicators, by EOHHS Regions, Massachusetts : 2005	175
Summary Asthma Indicators, Communities in Western Region : 2005	176
Summary Asthma Indicators, Communities in Western Region : 2005	176
Summary Asthma Indicators, by EOHHS Regions, Massachusetts : 2005	177
OTHER HEALTH INDICATORS	179
Total Cases of Elevated Blood Lead Levels ($\geq 15 \mu\text{G}/\text{DL}$), by EOHHS Region, Massachusetts: 2005	181
Lead Poisoning Prevalence Rates ($\text{BLL} \geq 25 \mu\text{G}/\text{DL}$), Children 9-48 Months, by EOHHS Region, Massachusetts: 2006	181
Adults who Report Experiencing Intimate Partner Violence by Gender and EOHHS Region, Massachusetts: 2005	182
Adults who Report Having a Disability by EOHHS Region, Massachusetts : 2005	182
Adults who Report Having a Disability and needing help with activities, by EOHHS Region, Massachusetts : 2005	183
Adults with Fair or Poor Health, by EOHHS Region, Massachusetts : 2005	183
Adults who Reported Fair or Poor Health by Race and Ethnicity, Western Region and Massachusetts : 2005	184
Adults who Reported Fair or Poor Health by Race and Ethnicity, Western Region and Massachusetts : 1999-2005	184
Adults who Visited a Dentist in Past Year, by EOHHS Region, Massachusetts : 2004	185
Adults who have lost 6 or More Teeth to Decay or Disease, by EOHHS Region, Massachusetts : 2004	185
Adults with Poor Mental Health for 15+ Days in Past Month, by EOHHS Region, Massachusetts : 2005	186
Summary Other Health Indicators, by EOHHS Regions.....	186
Summary Other Health Indicators, by EOHHS Regions.....	187
Refugee Arrivals Western Region, Massachusetts: 2002-2006	187
Refugee Health Concern Western Region, Massachusetts: 2002-2006	188
Summary Refugees by EOHHS Regions, Massachusetts : 2002-2006	188
Premature Mortality Rate (PMR)	189
Premature Mortality Rates (PMR) by Region, Massachusetts : 2005	189
PMR –Western Region by City/Town, Massachusetts : 2005	190
Median Household Income and PMR by EOHHS Region, Massachusetts: 2005 ...	190

Premature Mortality Rate (PMR) by EOHHS Regions: 2005.....	191
SUMMARY.....	193
Summary – Berkshires	195
Summary – Berkshires (Continued)	195
Selected Health Disparities by Race/Ethnicity, Berkshires.....	196
Summary – Western Region	196
Summary – Western Region (Continued).....	197
Selected Health Disparities by Race/Ethnicity, Western Region.....	197
APPENDIX.....	199
Regions and Towns	201
Data Sources	207

NOTE TO READERS

Background

This report presents important health indicators for your region, which were developed as background material for the Regional Health Dialogues being held across the Commonwealth in May and June 2007. These dialogues offer an opportunity for you to have a conversation with the Commissioner of Public Health, learn the latest health information for your region, identify your resources and areas of need, and together, with the Massachusetts Department of Public Health, shape a public health partnership.

Contents

This report provides information about the socio-demographics, health care access, births, deaths, major chronic and infectious disease rates, substance abuse, and injury and violence for your region. Your region's indicators are compared with those of other regions and to the state as a whole in order to provide you with a sense of the relative health of your region. Many indicators for your region are stratified by race, Hispanic ethnicity, and age in order help determine specific population groups that may require targeted health interventions. We have also provided information about the health status of one or more large communities in your region, which may be influencing your regional outcomes. We hope that this collection of important and diverse health indicators will stimulate discussions of local health priorities, as well as serving as a resource for health information and a reference for data that are available from the Massachusetts Department of Public Health. Please contact us with your comments and suggestions.

INTRODUCTION

Goals for holding Regional Dialogues

- Introduce new DPH leadership
- Present latest health data on your particular region
- Talk with residents and providers about data and identify areas of need
- Gather feedback to inform process of setting DPH priorities

Goals of New DPH leadership

- Use data and community input to set new priorities & reshape the Department
- Rely on science and evidence-based process to guide the work
- Strengthen ties with and support for local health and local agencies
- Increase resources to and visibility of public health in Massachusetts

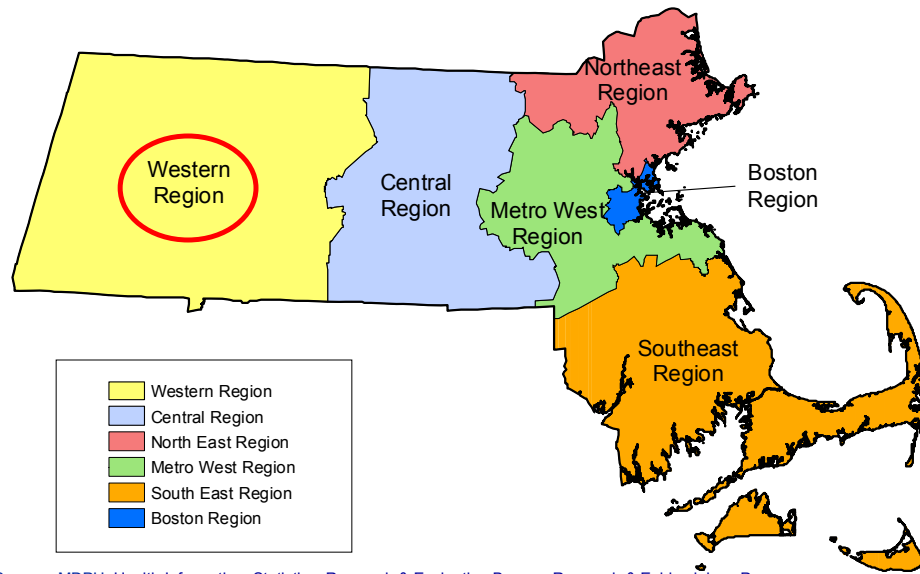
Timetable

- Hold 8 regional dialogues with comprehensive data review and identification of key health concerns (by July)
- Identify short list of top priorities by end of August
- Hold second round of community dialogues to discuss action plans/results by end of calendar year

SOCIODEMOGRAPHIC INDICATORS

Executive Office of Health and Human Services Regions (EOHHS)

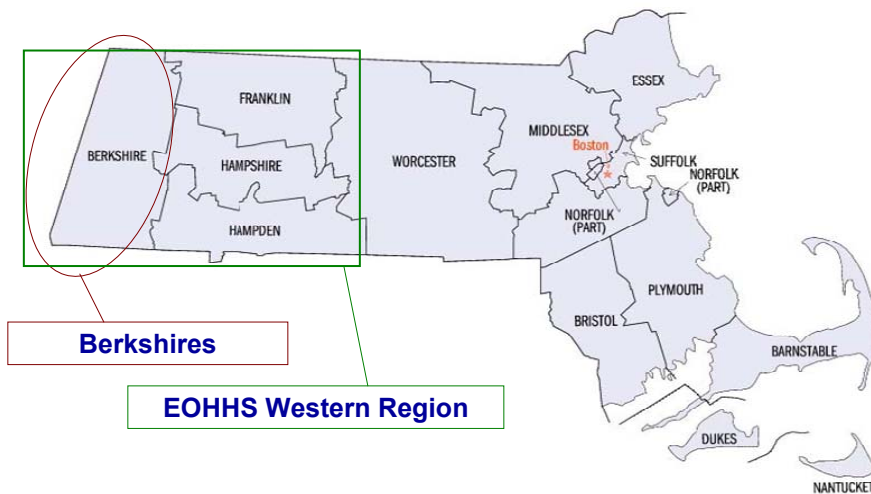
1



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Massachusetts Counties & EOHHS Western Region

2

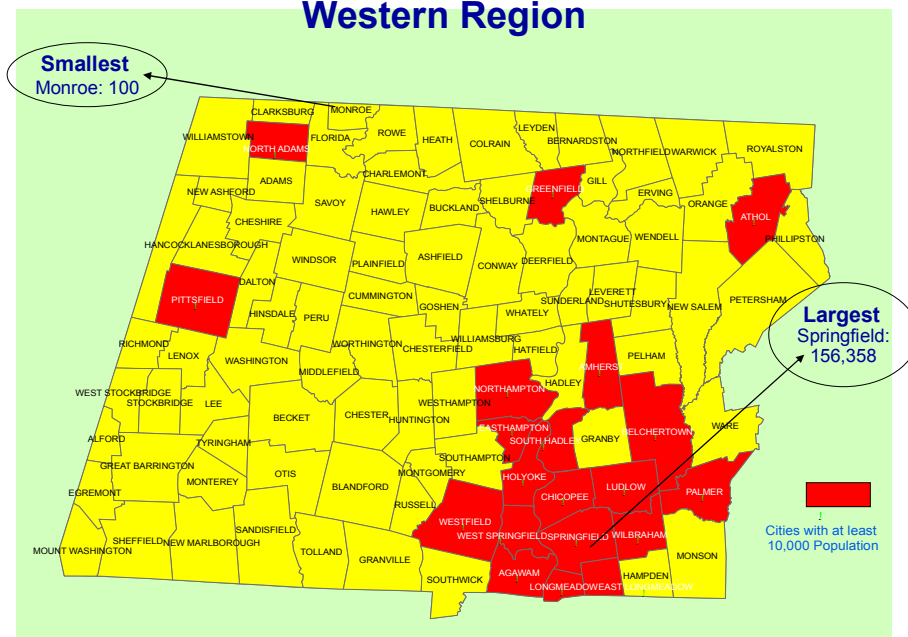


Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

A few comments about the limitations of this presentation

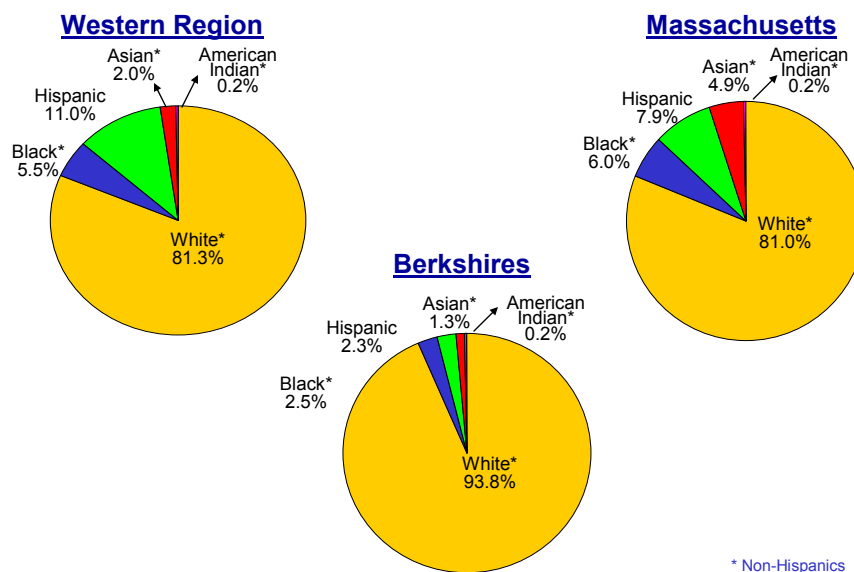
- A regional analysis has its drawbacks
- Variability within a region – urban vs. rural/suburban (i.e. Berkshires vs. the rest of the region)
- Variability by sub-population – race matters, poverty matters
- Our data don't reflect all the important health indicators

2005 Population by Communities Western Region



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Race and Ethnic Breakdown of Population Western Region and Massachusetts: 2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

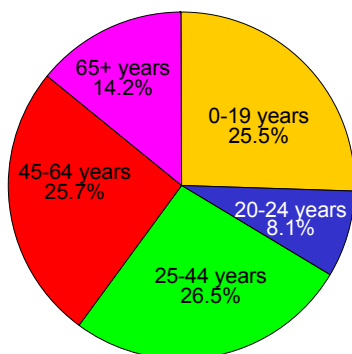
Race and Ethnic Breakdown of Population Western Region and Massachusetts: 2005

	Western Region	Chicopee	Holyoke	Springfield	Pittsfield	MA Total
White non-Hispanic	81.3%	86.3%	49.3 %	45.0 %	90.8%	81.0%
Black non-Hispanic	5.5%	2.2%	2.7 %	21.3 %	4.7%	6.0%
Hispanic	11.0%	10.1%	46.7 %	31.0 %	2.8%	7.9%
Asian non-Hispanic	2.0%	1.2 %	1.0 %	2.4 %	1.6%	4.9%
American Indian	0.2%	0.2 %	0.2 %	0.3 %	0.1%	0.2%

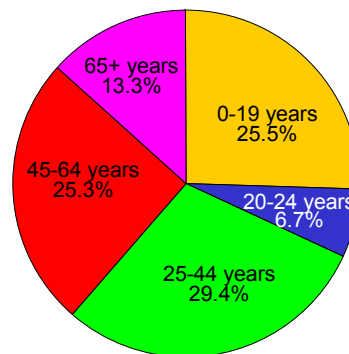
Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Population by Age Group Western Region and Massachusetts: 2005

Western Region



Massachusetts



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Population by Age Group Western Region and Massachusetts: 2005

Ages	Western Region	Pittsfield	Berkshires	MA Total
0-19 years	25.5%	23.3%	23.2%	25.5%
20-24 years	8.1%	5.7%	6.6%	6.7%
25-44 years	26.5%	26.9%	24.7%	29.4%
45-64 years	25.7%	25.6%	27.8%	25.3%
65+ years	14.2%	18.4%	17.3%	13.3%

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Population by Age Group Western Region and Massachusetts: 2005

Ages	Western Region	Chicopee	Holyoke	Springfield	MA Total
0-19 years	25.5%	23.7%	30.5%	30.6%	25.5%
20-24 years	8.1%	6.7%	6.7%	8.6%	6.7%
25-44 years	26.5%	27.2%	27.1%	28.3%	29.4%
45-64 years	25.7%	25.6%	21.2%	20.9%	25.3%
65+ years	14.2%	16.8%	14.4%	11.7%	13.3%

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Language Spoken at Home, Western Region and Massachusetts: 2000

	Western Region	Massachusetts Overall
Only English	83.9	81.3
Spanish or Spanish Creole	8.2	6.2
Portuguese or Portuguese Creole	0.9	2.7
French	1.5	1.4
Chinese	0.4	1.2
Italian	0.7	1.0
French Creole	0.04	0.7
Russian	0.7	0.6
Vietnamese	0.3	0.5
Polish	1.4	0.5

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Language Spoken at Home, Largest Cities, Western Region: 2000

11

	Western Region	Chicopee	Holyoke	Springfield
Only English	83.9	79.2	57.2	68.4
Spanish/Spanish Creole	8.2	7.1	35.8	23.5
Portuguese/Portuguese Creole	0.9	1.8	0.3	0.7
French	1.5	3.7	1.9	1.3
Italian	0.7	0.3	0.2	1.1
French Creole	0.04	0.07	0.03	0.06
Russian	0.7	0.9	0.1	0.7
Other languages	4.1	6.9	4.5	4.2

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Language Spoken at Home, Western Region and Massachusetts: 2000

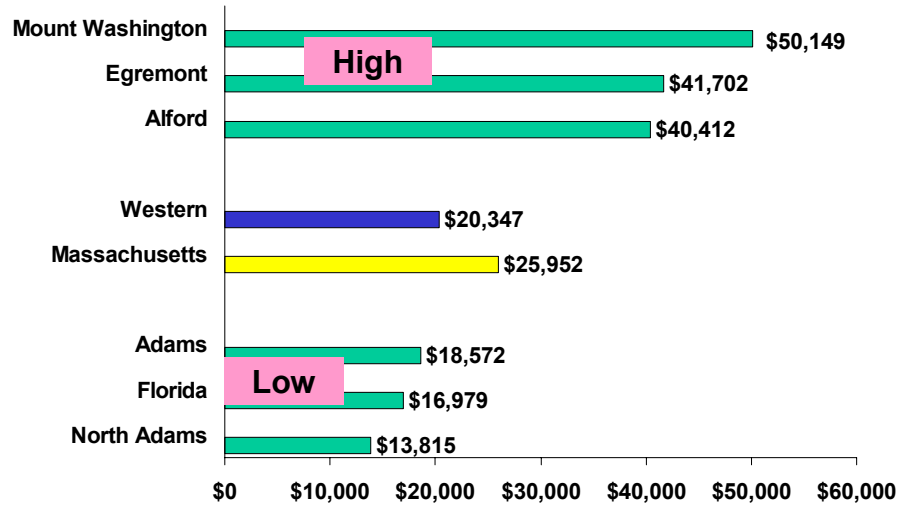
12

	Pittsfield	Berkshires	Western Region	Massachusetts Overall
Only English	93.0	93.6	83.9	81.3
Spanish or Spanish Creole	1.7	1.6	8.2	6.2
Portuguese or Portuguese Creole	0.2	0.1	0.9	2.7
French	0.9	1.1	1.5	1.4
Chinese	0.2	0.2	0.4	1.2
Italian	1.4	0.8	0.7	1.0
French Creole	0.0	0.01	0.04	0.7
Russian	0.2	0.09	0.7	0.6
Vietnamese	0.1	0.1	0.3	0.5
Polish	0.9	0.9	1.4	0.5

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Highest and Lowest Per Capita Income by Community¹, Berkshires: 2000

13

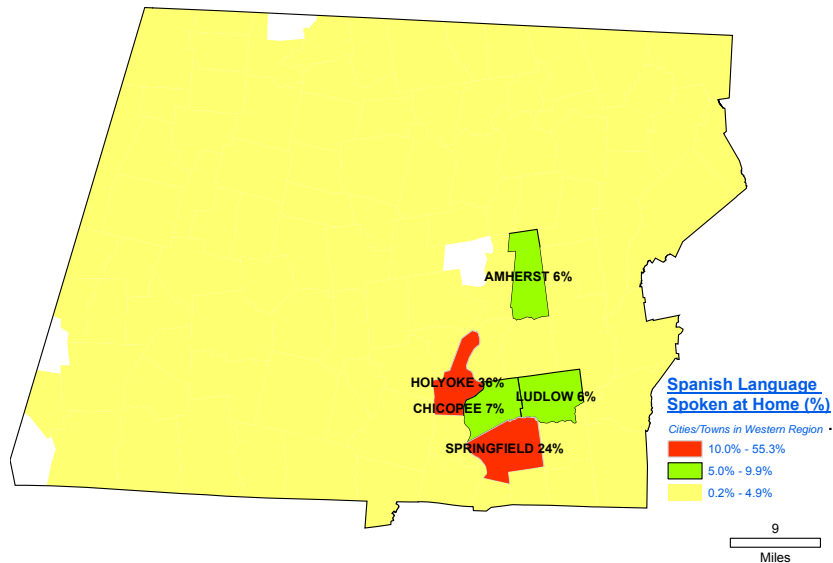


¹ Selected among communities with at least 10,000 population

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Spanish Spoken at Home Western Region: 2000

14



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Socio-Demographic Indicators Western Region and Massachusetts: 2000

15

	Western Region	Massachusetts Overall	US Overall
Per Capita Income	\$20,347	\$25,952	\$21,587
Persons living below 100% poverty	12.5%	9.3%	12.4%
Children < 18 living below 100% poverty	17.8%	11.6%	16.1%
Less than a High School Education	17.2%	15.2%	19.6%
Foreign born	6.2%	12.2%	11.1%
Unemployed	5.2%	5.1%	5.5%

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

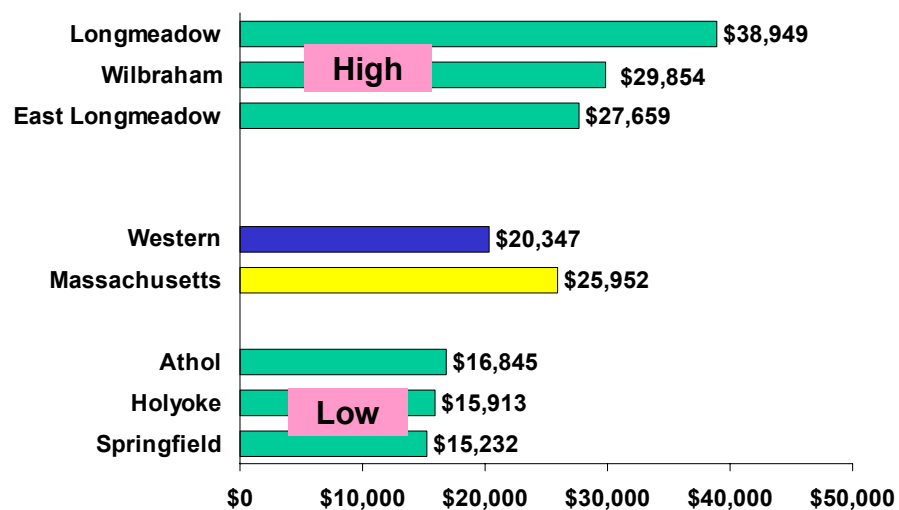
Socio-Demographic Indicators Largest Cities, Western Region and Massachusetts

16

	Massachusetts	Chicopee	Holyoke	Springfield	Pittsfield
Per Capita Income (2000)	\$25,952	\$18,646	\$15,913	\$15,232	\$20,549
Persons living below 100% poverty (2000)	9.3%	12.3%	26.4%	23.1%	11.4%
Children < 18 living below 100% poverty (2000)	11.6%	19.5%	41.7%	33.9%	16.7%
Less than a High School Education (2000)	15.2%	25.1%	30.0%	26.6%	15.6%
Foreign born (2000)	12.2%	8.2%	5.4%	8.0%	3.9%
Speak language other than English at home (2000)	18.7%	20.8%	42.8%	31.6%	7.0%
Unemployed (2004)	5.1%	6.2%	7.3%	7.7%	4.8%

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

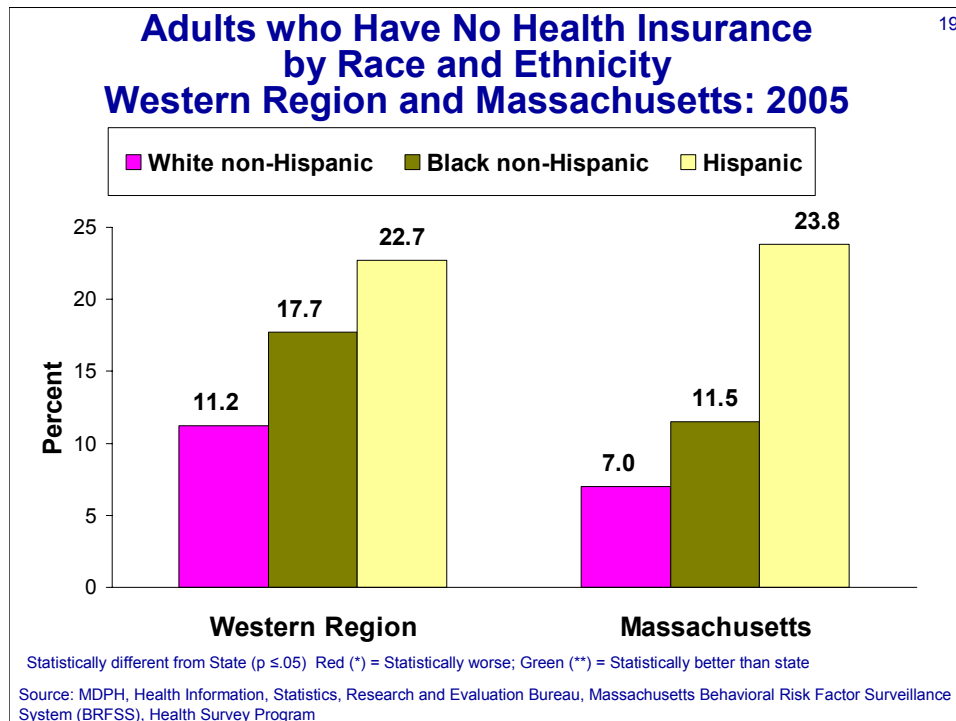
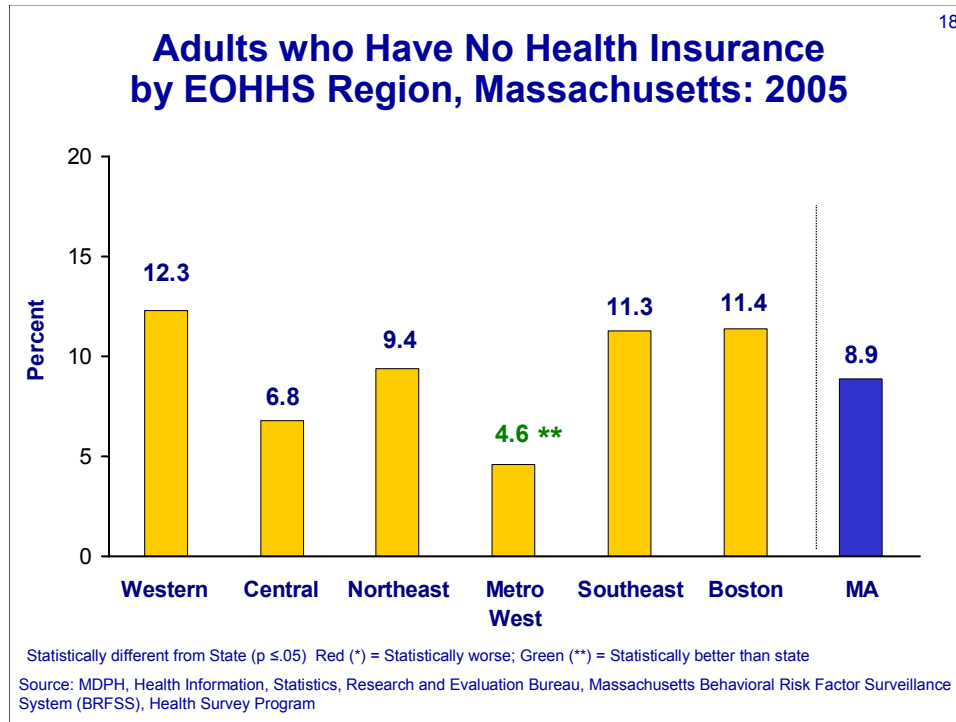
Highest and Lowest Per Capita Income by Community¹, Western Region: 2000



¹ Selected among communities with at least 10,000 population

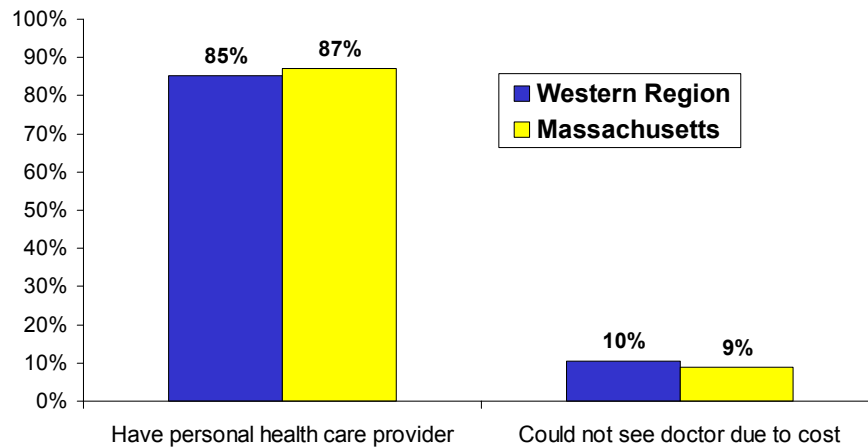
Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

HEALTH CARE ACCESS



Health Insurance Access Western Region and Massachusetts: 2005

20



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Summary Indicators for Health Insurance by EOHHS Region, Massachusetts: 2005

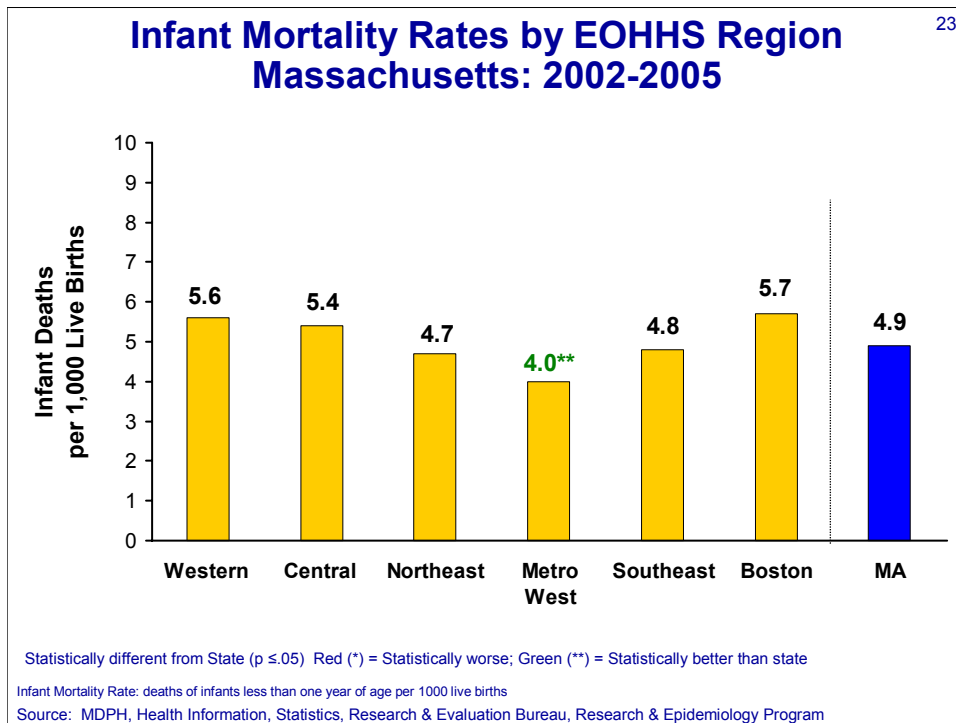
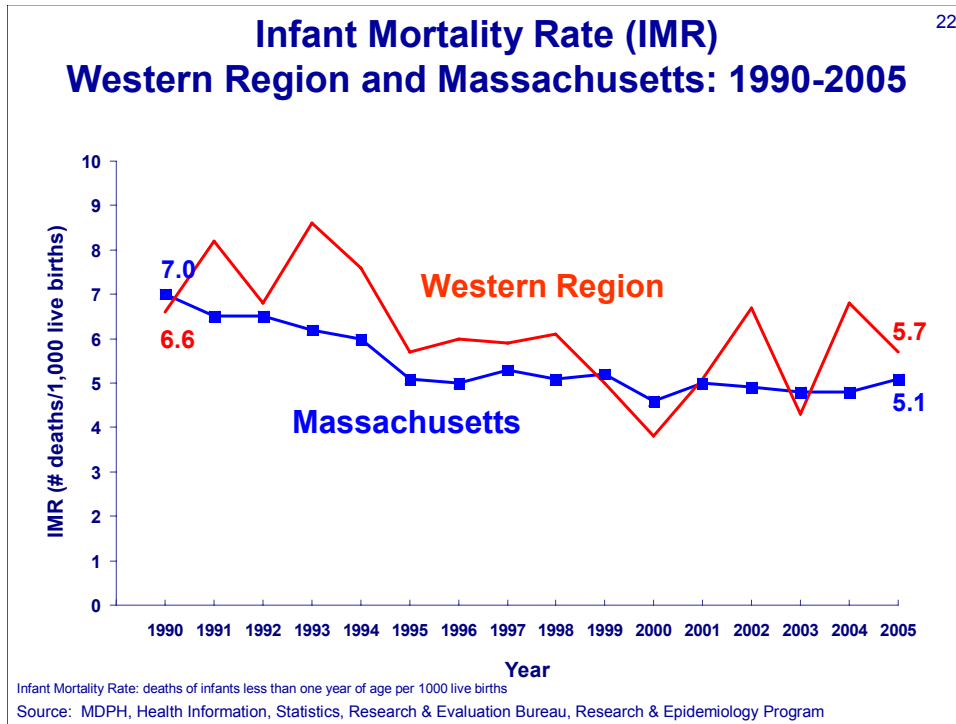
21

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
% Adults with no health insurance	8.9	12.3	6.8	9.4	4.6	11.3	11.4
% Adults who have a personal health care provider	87.1	85.3	90.0	85.8	90.3	88.2	78.3
% Adults who were unable to see a doctor due to cost	8.8	10.4	10.4	7.8	7.0	9.2	9.4

■ Better Outcome (significantly different from state) ■ Worse Outcome (significantly different from state)

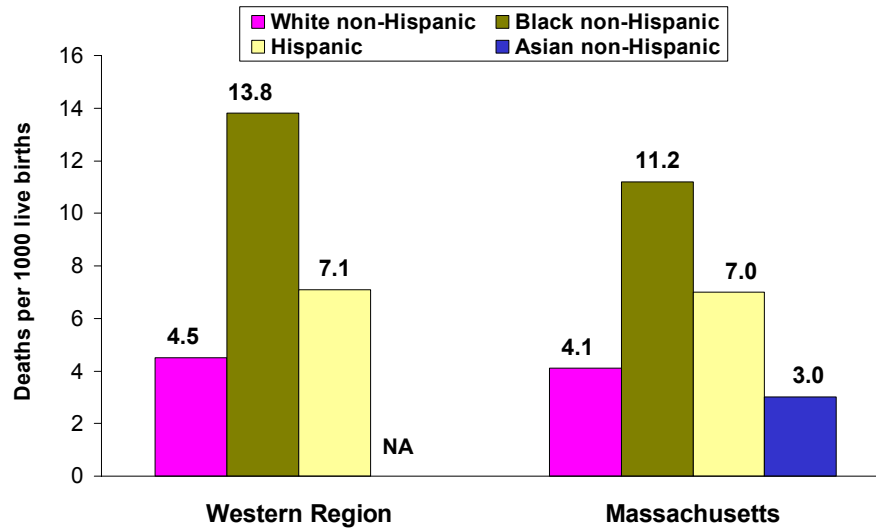
Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

BIRTH INDICATORS



Infant Mortality Rates by Race/Ethnicity Western Region and Massachusetts: 2002-2005

24



NA= Calculations based on less than 5 events are excluded

Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Highest Infant Mortality Rates Among the 30 Largest Communities¹ Massachusetts: 2005

25

	IMR	95% CI ²	Number of Deaths
State	5.1	[4.6, 5.6]	391
Worcester	13.9*	[9.4, 18.4]	36
Malden	11.4	[4.0, 18.7]	9
Revere	10.9	[2.9, 18.9]	7
Springfield	10.6*	[6.4, 14.7]	25
New Bedford	8.6	[3.8, 13.5]	12

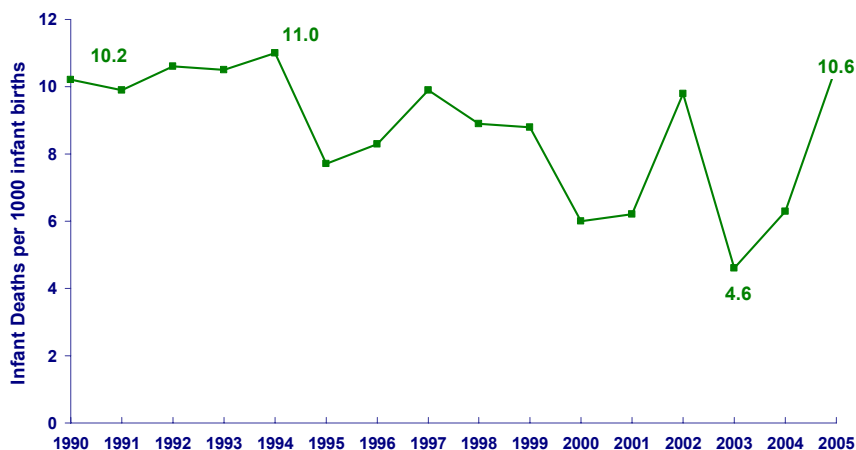
¹Selected among the 30 Massachusetts communities with the largest populations. IMR = infant deaths per 1,000 live births.

²A Confidence Interval for a population parameter is a range in which you are 95% certain that the true population estimate is within. It is a function of variability and the number of events.

Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Infant Mortality Rates (IMR) Springfield: 1990-2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Highest Infant Mortality Rates Among the 30 Largest Communities¹ Massachusetts: 2003-2005

	<u>2003-2005 Rate</u>
Massachusetts	4.9 (n = 1,150)
Worcester	8.3 (n = 64) *
Lowell	7.8 (n = 39) *
Brockton	7.6 (n = 35)
Lawrence	7.5 (n = 32)
Weymouth	7.5 (n = 16)
Springfield	7.1 (n = 51)

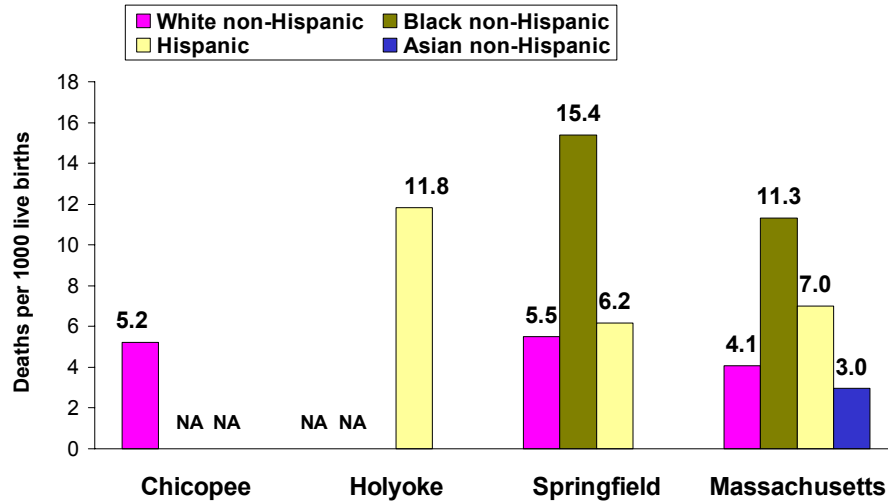
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

¹ Selected among the 30 Massachusetts communities with the largest populations. Rate = infant deaths per 1,000 live births

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Infant Mortality Rates by Race/Ethnicity Largest Cities in Western Region and Massachusetts: 2002-2005

28

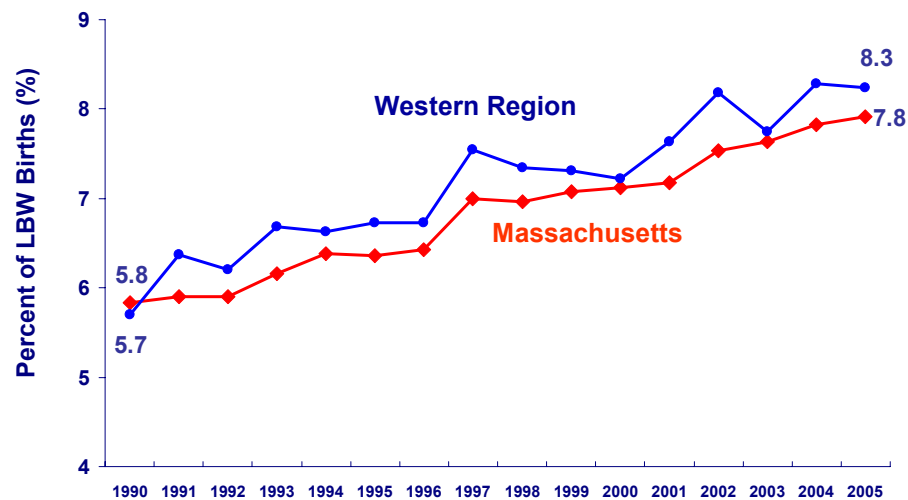


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

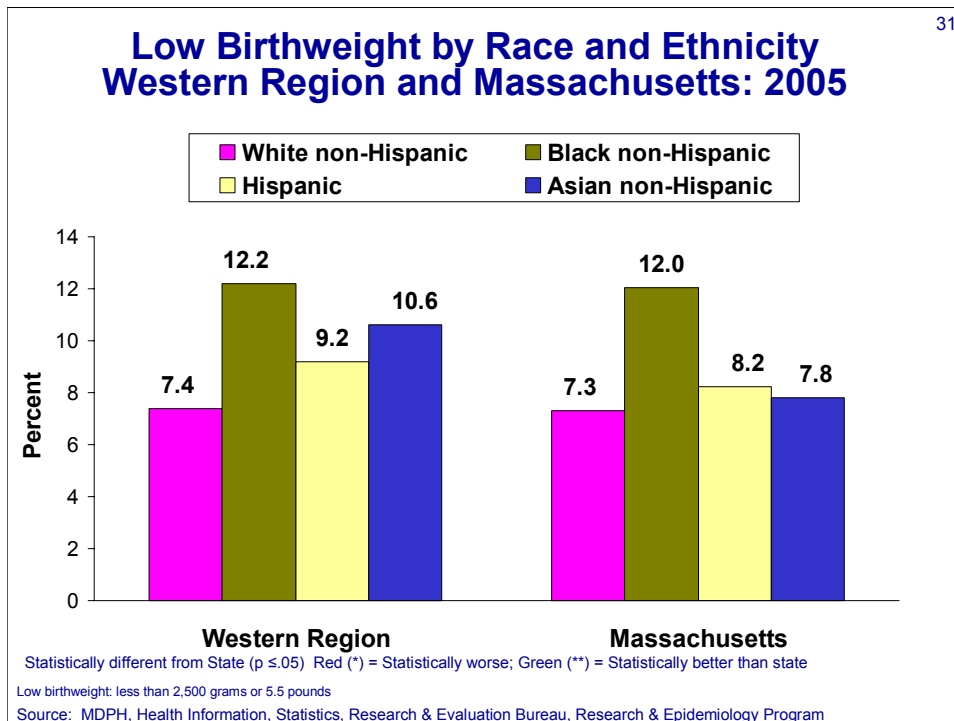
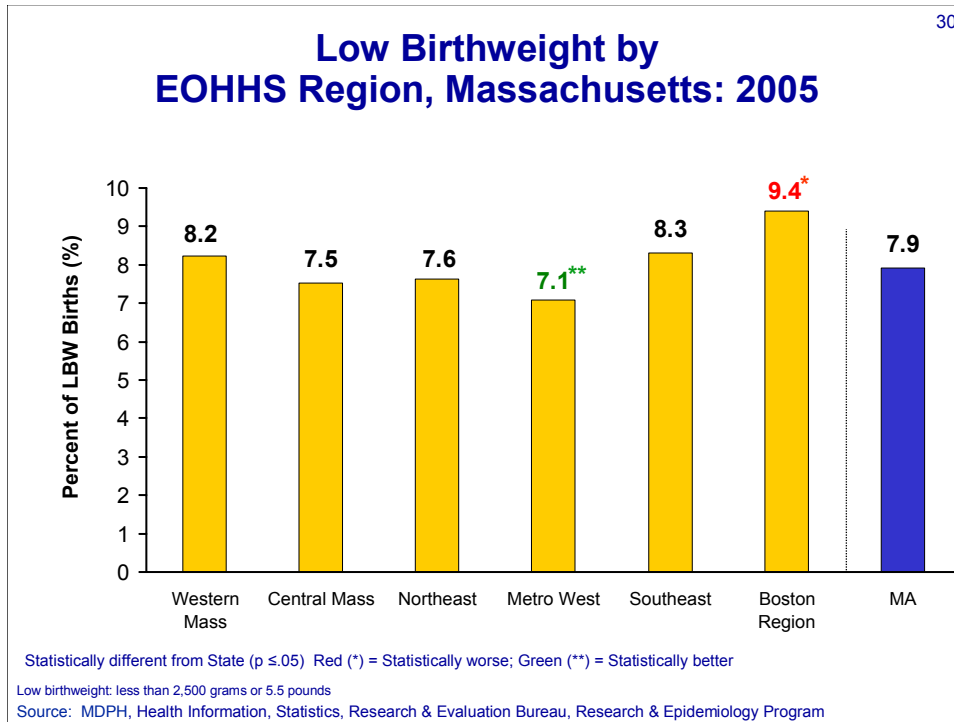
Low Birthweight Western Region and Massachusetts: 1990-2005

29



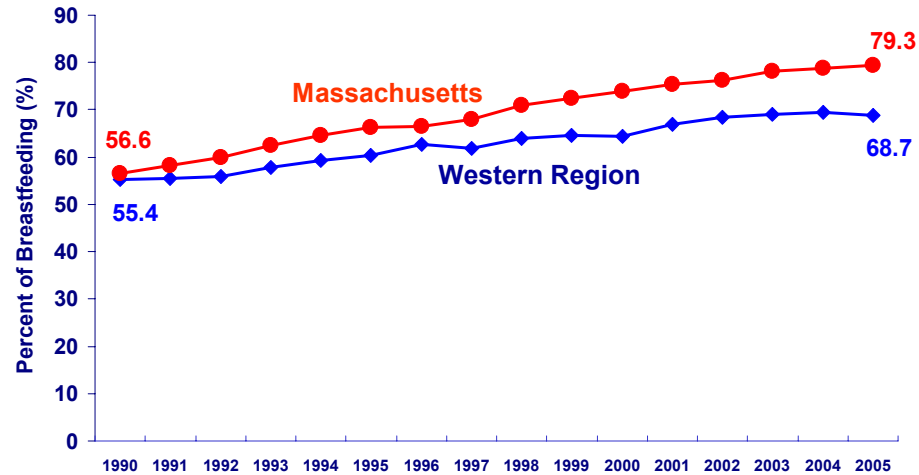
Low birthweight: less than 2,500 grams or 5.5 pounds

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program



Percent of Mothers Breastfeeding Western Region and Massachusetts: 1990-2005

32

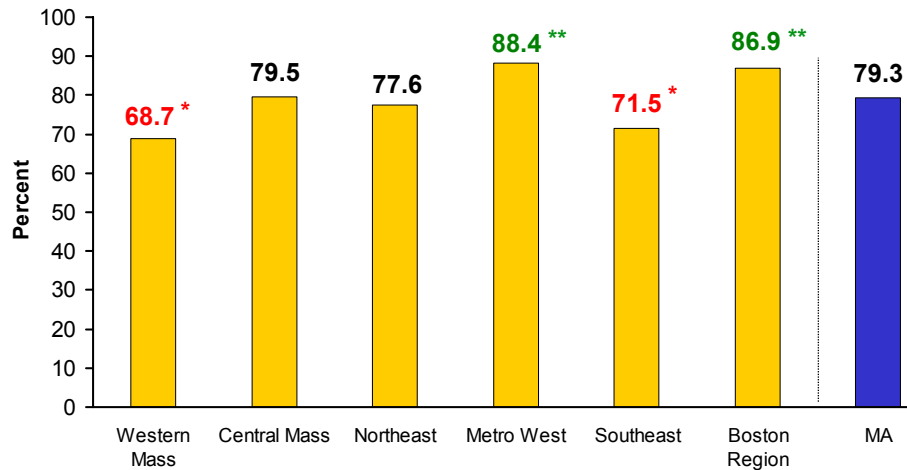


Mother was breastfeeding or intending to breastfeed at the time the birth certificate was completed.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Breastfeeding by EOHHS Region Massachusetts: 2005

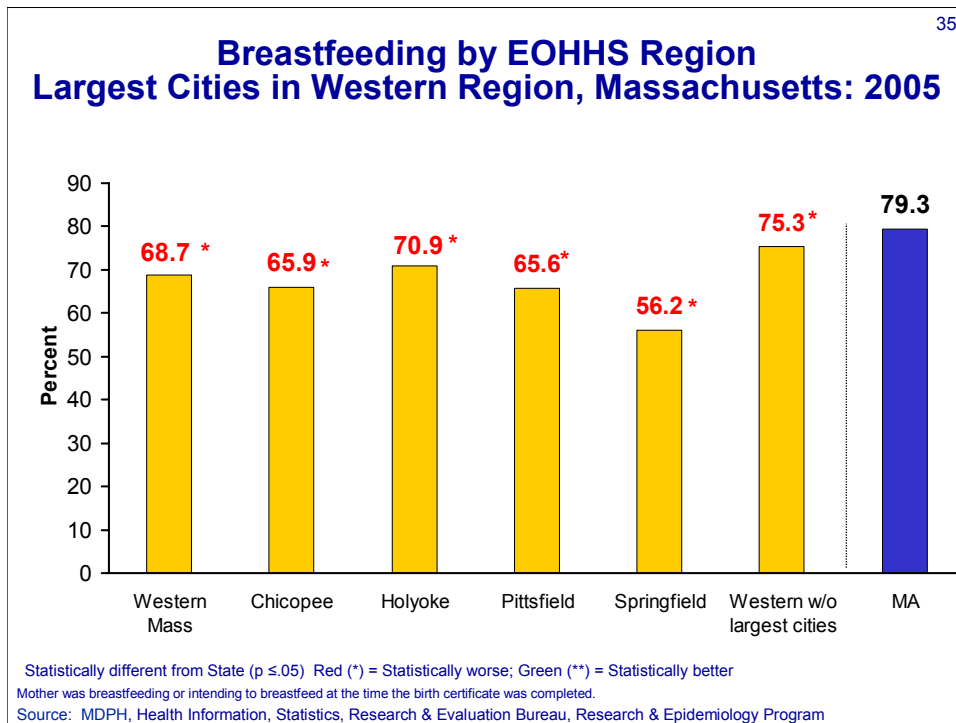
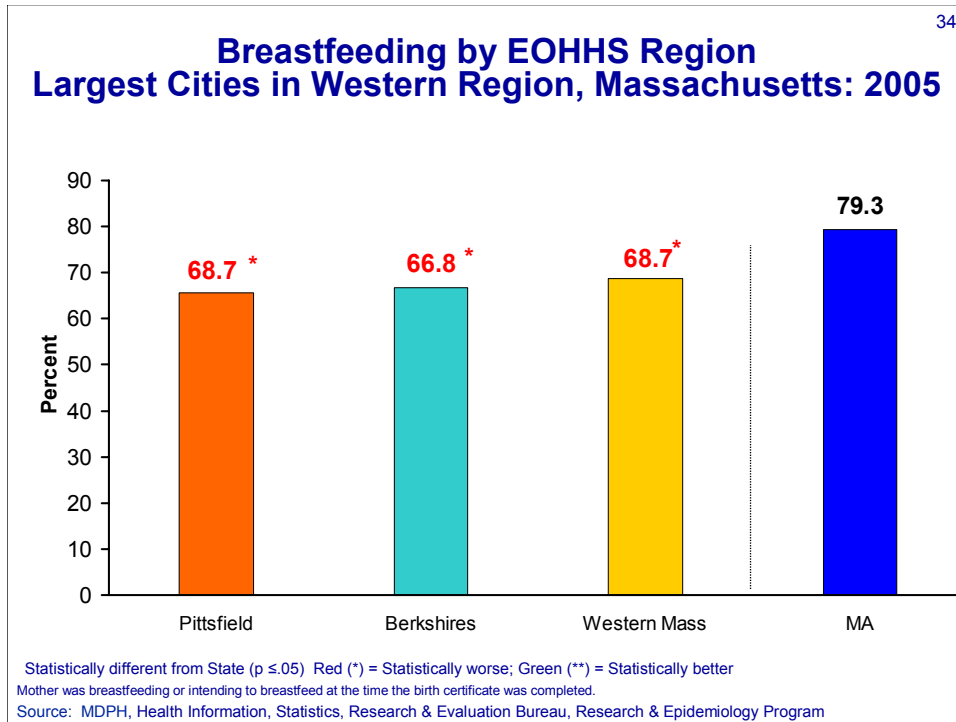
33



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better

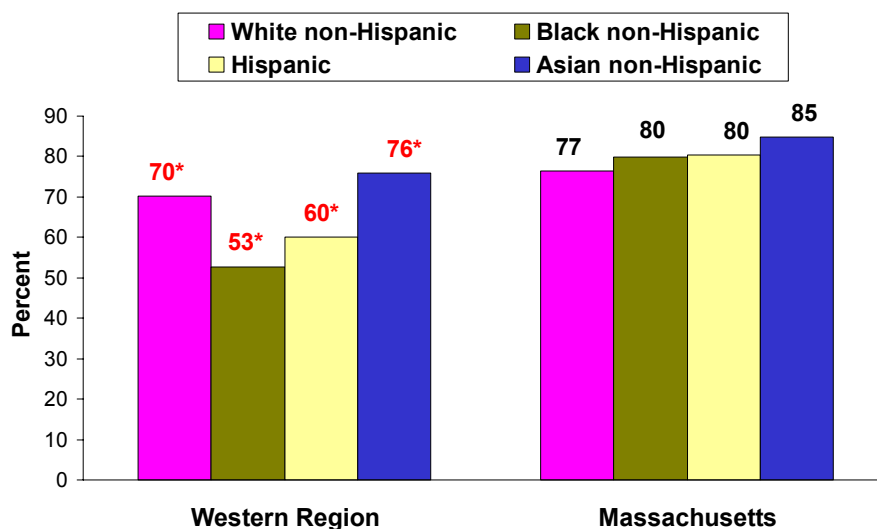
Mother was breastfeeding or intending to breastfeed at the time the birth certificate was completed.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program



Breastfeeding in Western Region and Massachusetts by Race/Ethnicity: 2005

36



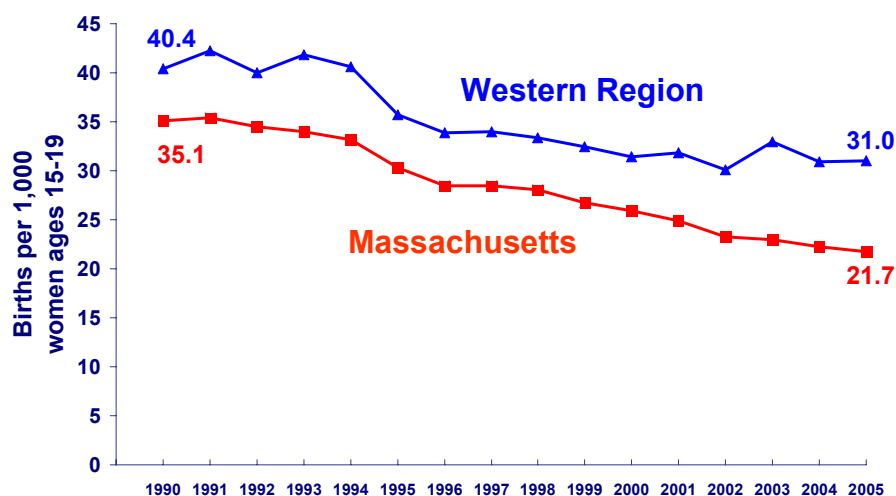
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Low birthweight: less than 2,500 grams or 5.5 pounds

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

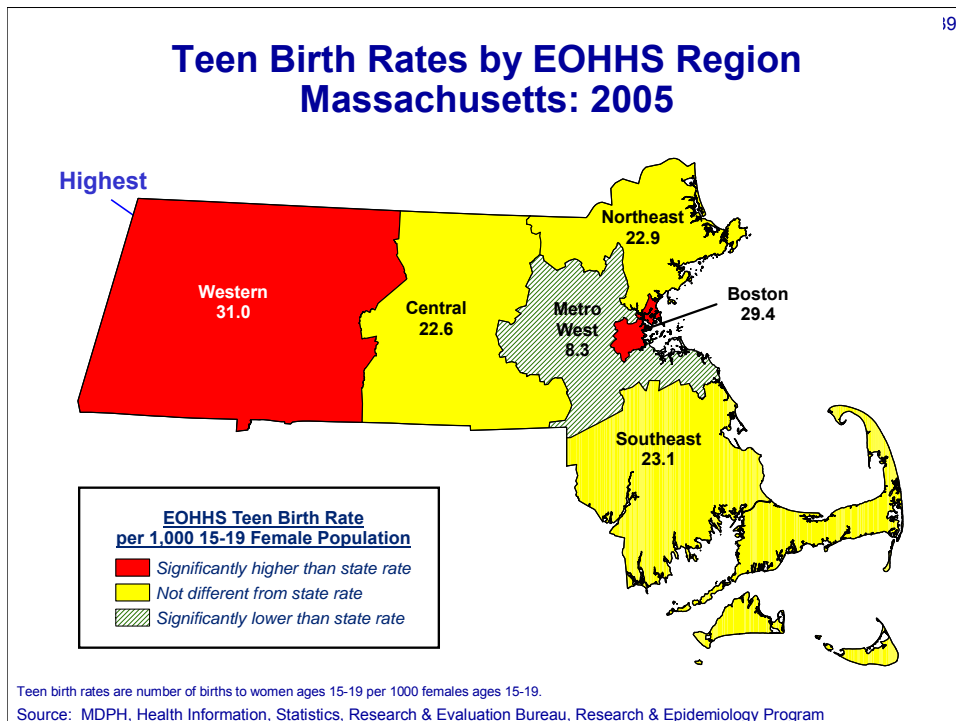
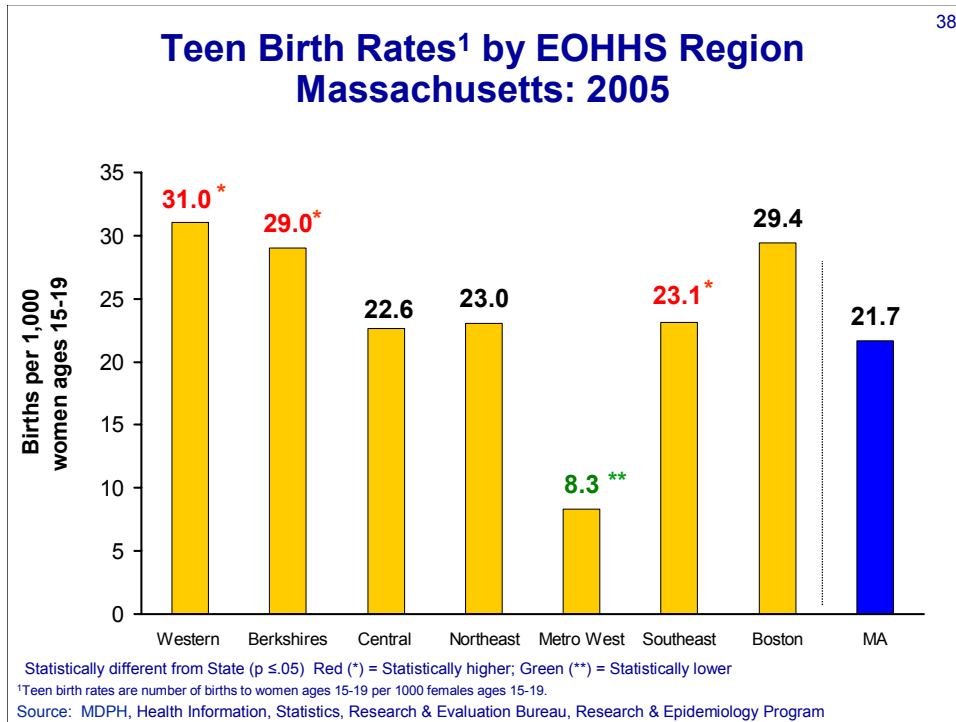
Teen Birth Rate Western Region and Massachusetts: 1990-2005

37

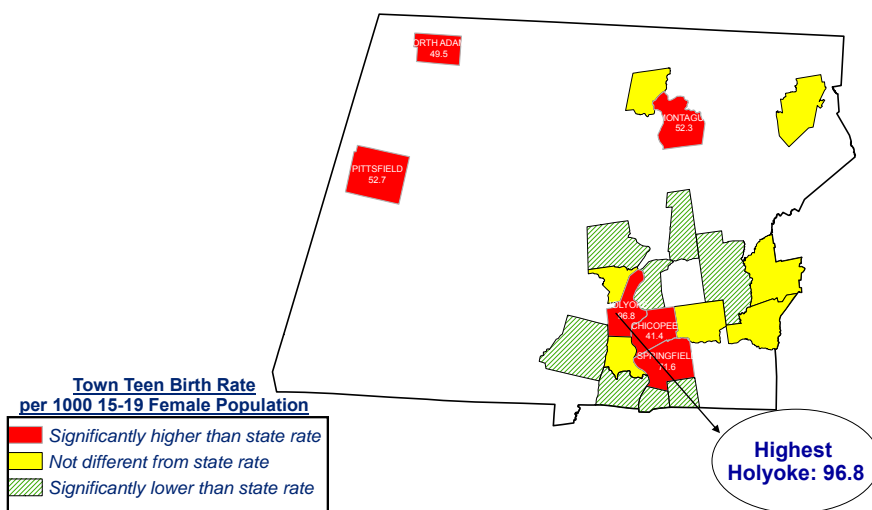


Teen birth rates are number of births to women ages 15-19 per 1000 females ages 15-19.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program



Teen Birth Rates by City/Town* Western Region: 2005

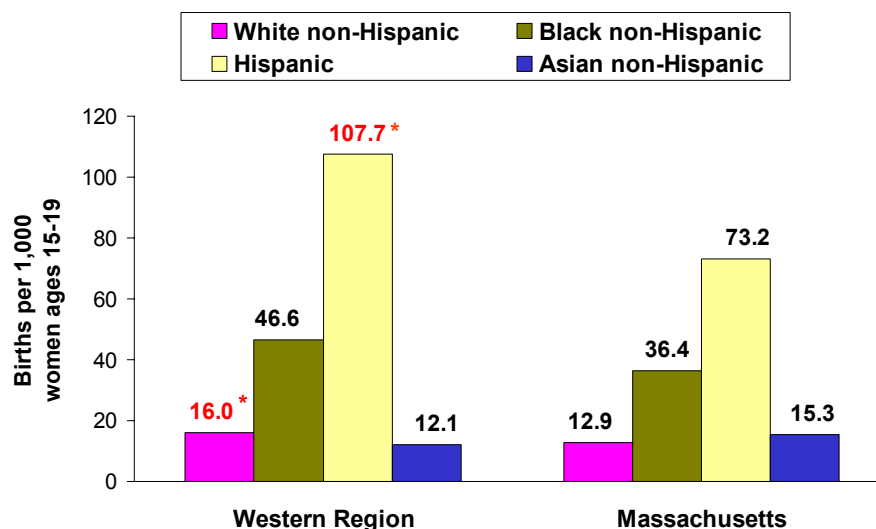


*Towns with less than 100 births were excluded.

Teen birth rates are number of births to women ages 15-19 per 1000 females ages 15-19.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Teen Birth Rates by Race and Ethnicity Western Region and Massachusetts: 2005



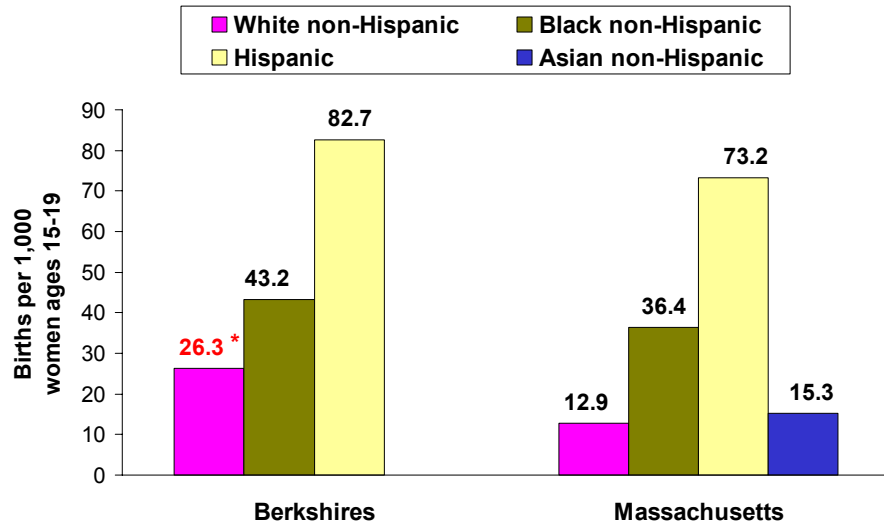
Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower

Teen birth rates are number of births to women ages 15-19 per 1000 females ages 15-19.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Teen Birth Rates by Race and Ethnicity Berkshires Region and Massachusetts: 2005

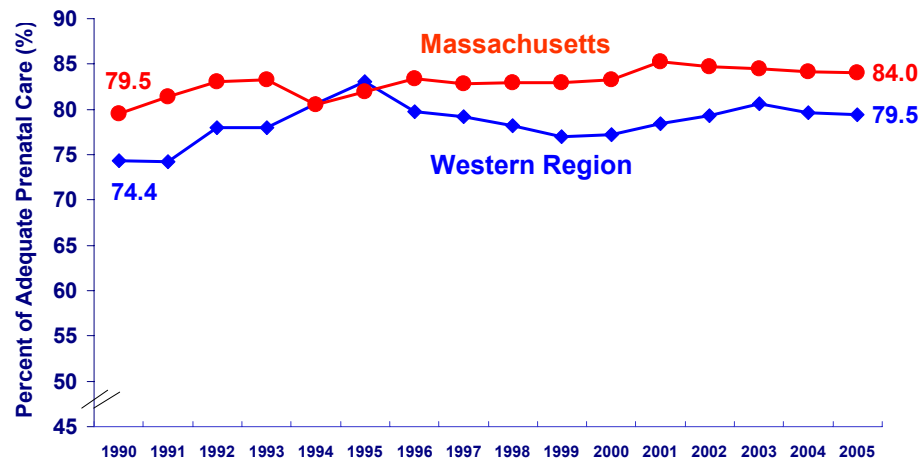
42



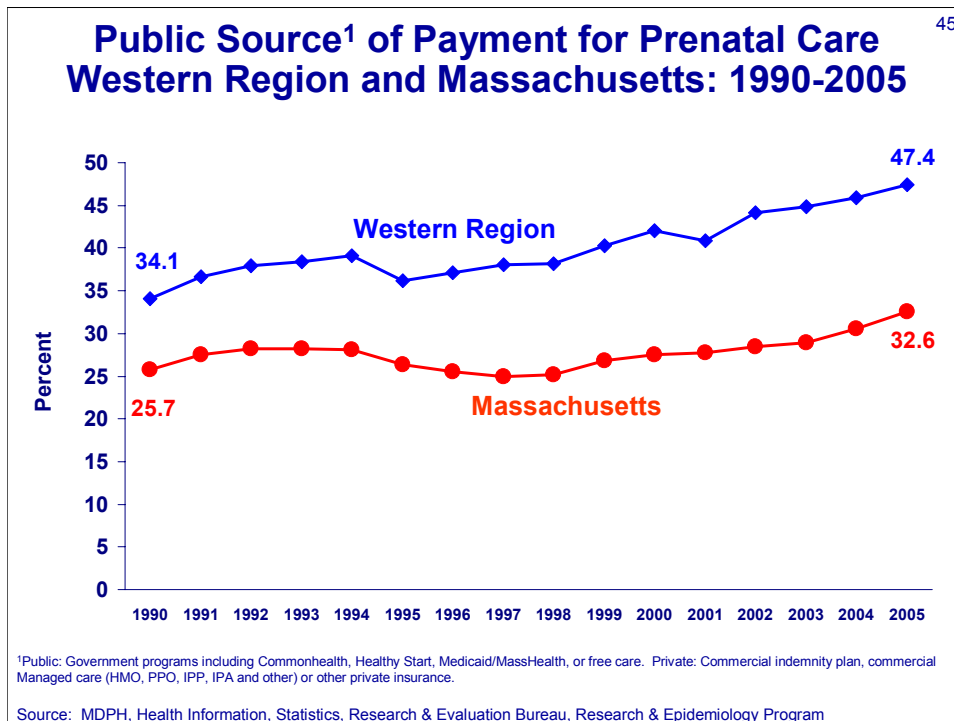
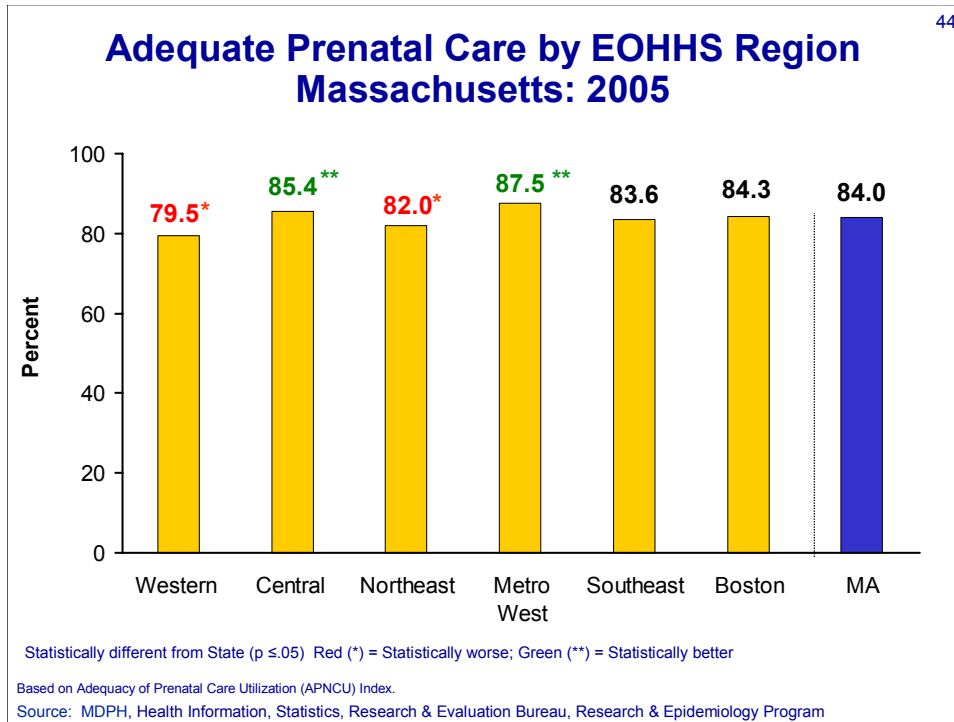
Statistically different from State ($p \leq 0.05$) Red (*) = Statistically higher; Green (**) = Statistically lower
 Teen birth rates are number of births to women ages 15-19 per 1000 females ages 15-19.
 Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Adequate Prenatal Care Western Region and Massachusetts: 1990-2005

43



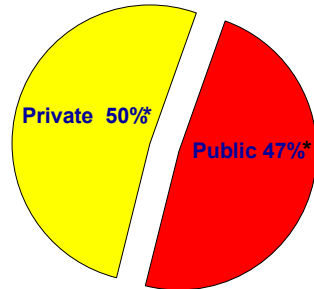
Based on Adequacy of Prenatal Care Utilization (APNCU) Index.
 Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program



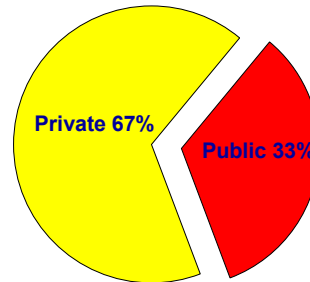
Public Source of Payment for Prenatal Care¹ Western and Massachusetts: 2005

46

Western Region



Massachusetts



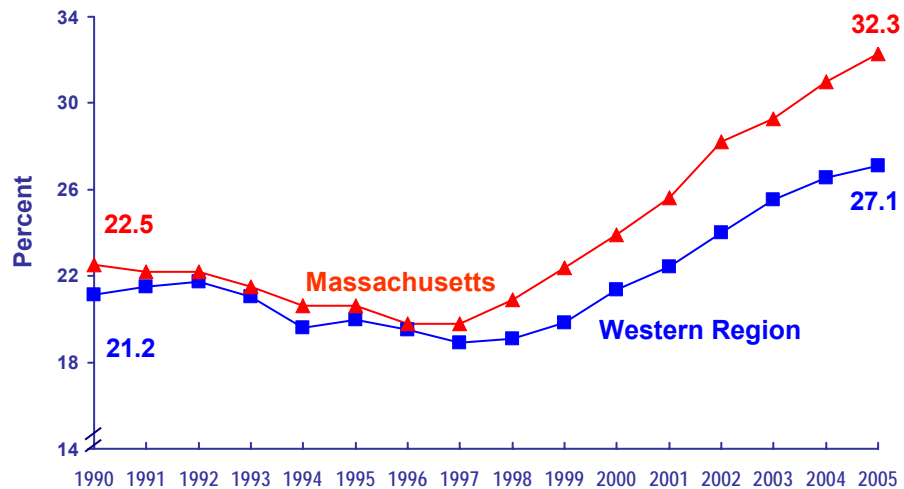
* Statistically Significantly different from state ($p \leq .05$)

¹Public: Government programs including Commonhealth, Healthy Start, Medicaid/MassHealth, or free care. Private: Commercial indemnity plan, commercial Managed care (HMO, PPO, IPP, IPA and other) or other private insurance.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

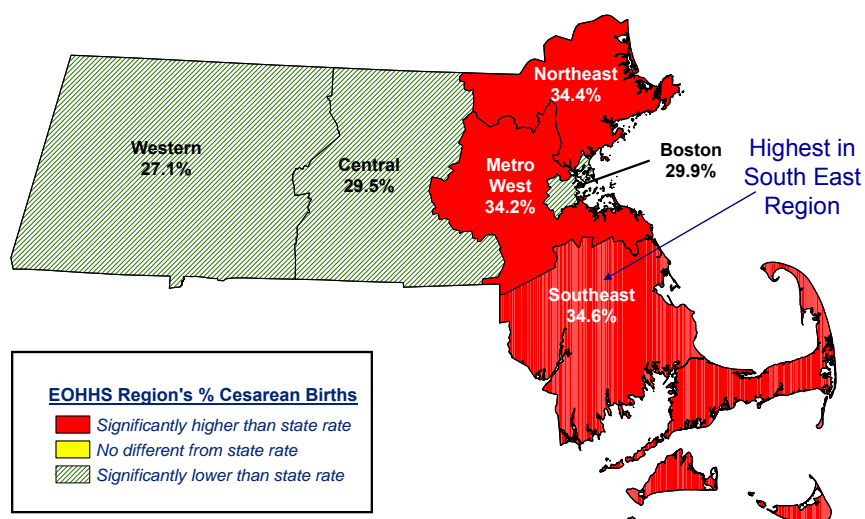
Infants Delivered by C-Section Western Region and Massachusetts: 1990-2005

47



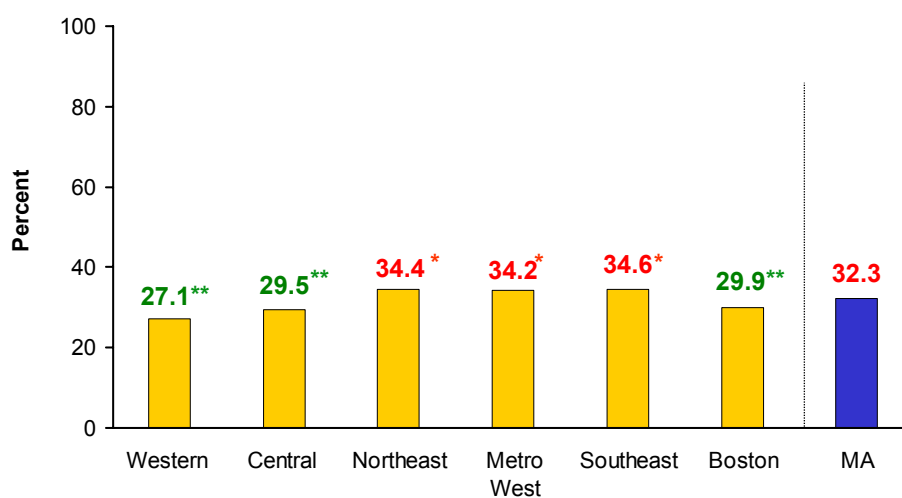
Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Infants Delivered by C-Section by EOHHS Regions, Massachusetts: 2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Infants Delivered by C-Section by EOHHS Region Massachusetts: 2005



Statistically different from State ($p \leq 0.05$) Red (*) = Statistically higher; Green (**) = Statistically lower

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Summary Birth Indicators by EOHHS Region, Massachusetts:2005

50

Indicator (as % of births)	MA Total (n=76,824)	Western (n=8,935)	Central (n=10,532)	North East (n=15,939)	Metro West (n=17,093)	South East (n=14,681)	Boston (n=9,644)
Adequate Prenatal Care (Kotelchuck index)	84.0	79.5	85.4	82.0	87.5	83.6	84.3
C-section deliveries	32.3	27.1	29.5	34.4	34.2	34.6	29.9
Low Birth weight (<5.5 lb)	7.9	8.2	7.5	7.6	7.1	8.3	9.4
Breastfeeding	79.3	68.7	79.5	77.6	88.4	71.5	86.9
Public Pay for Prenatal Care	32.6	47.4	27.9	33.7	17.2	34.7	46.4
Smoking during pregnancy	7.1	13.5	7.6	7.2	3.2	10.2	3.9

Better Outcome (significantly different from state)
 Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Summary Birth Indicators by Community in Western Region Massachusetts: 2005

51

Indicator (as % of births)	MA Total (n=76,824)	Western (n=8,935)	Chicopee (n=608)	Holyoke (n=642)	Pittsfield (n=526)	Berkshires (n=1,277)	Springfield (n=2,369)
Adequate Prenatal Care (Kotelchuck index)	84.0	79.5	82.9	78.4	61.0	72.5	71.6
C-section deliveries	32.3	27.1	28.2	20.5	30.5	29.3	24.8
Low Birth weight (<5.5 lb)	7.9	8.2	6.9	8.8	8.4	8.6	9.8
Breastfeeding	79.3	68.7	65.9	70.9	65.6	68.3	56.2
Public Pay for Prenatal Care	32.6	47.4	51.1	74.4	53.0	45.7	70.9
Smoking during pregnancy	7.1	13.5	14.1	7.3	24.5	20.7	14.8

Better Outcome (significantly different from state)
 Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Summary Birth Indicators by EOHHS Region

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
Infant Mortality Rate (2002-2005) (infant deaths per 1000 live births)	4.9	5.6	5.4	4.7	4.0	4.8	5.7
Teen birth rate (2005) (births to women ages 15-19 per 1000 women ages 15-19)	21.7	31.0	22.9	23.0	8.3	23.1	29.4

 Better Outcome (significantly different from state)  Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Summary Birth Indicators by EOHHS Region

Indicator	MA Total	Western	Chicopee	Holyoke	Pittsfield	Berkshires	Springfield
Infant Mortality Rate (2002-2005) (infant deaths per 1000 live births)	4.9	5.6	6.1	8.4	4.7	5.5	7.8
Teen birth rate (2005) (births to women ages 15-19 per 1000 women ages 15-19)	21.7	31.0	41.4	96.8	52.7	29.0	71.6

 Better Outcome (significantly different from state)  Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

LEADING CAUSES OF DEATH

Leading Causes of Death Western Region and Massachusetts: 2005

54

<u>Western Region</u> N=7,833			<u>Massachusetts</u> N=53,776		
Heart Disease	1,929	24.6%	Heart Disease	13,248	24.6%
Cancer	1,874	23.9%	Cancer	13,159	24.5%
Stroke	437	5.6%	Stroke	2,979	5.5%
All Injuries	395	5.0%	All Injuries	2,657	4.9%
Chronic Lower Respiratory Disease (formerly COPD)	394	5.0%	Chronic Lower Respiratory Disease (formerly COPD)	2,643	4.9%
Alzheimer's	251	3.2%	Influenza and pneumonia	1,932	3.6%
Influenza & pneumonia	242	3.1%	Alzheimer's	1,635	3.0%
Nephritis	228	2.9%	Nephritis	1,403	2.6%
Diabetes	201	2.6%	Diabetes	1,271	2.4%
Septicemia	141	1.8%	Septicemia	982	1.8%

Statistically different from State (p ≤ .05) Red (*) = Statistically higher; Green (**) = Statistically lower than state
Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Leading Causes of Death Berkshires and Massachusetts: 2005

55

<u>Berkshires</u> N=1,487			<u>Massachusetts</u> N=53,776		
Heart Disease	389	26.2%	Heart Disease	13,248	24.6%
Cancer	347	23.3%	Cancer	13,159	24.5%
Stroke			Stroke	2,979	5.5%
Chronic Lower Respiratory Disease (formerly COPD)	96	6.5%*	All Injuries	2,657	4.9%
Stroke	89	6.0%	Chronic Lower Respiratory Disease (formerly COPD)	2,643	4.9%
All Injuries	68	4.6%	Influenza and pneumonia	1,932	3.6%
Alzheimer's	54	3.6%	Alzheimer's	1,635	3.0%
Influenza & pneumonia	49	3.3%	Nephritis	1,403	2.6%
Diabetes	45	3.0%	Diabetes	1,271	2.4%
Nephritis	39	2.6%	Septicemia	982	1.8%
Septicemia	24	1.6%			

Statistically different from State (p ≤ .05) Red (*) = Statistically higher; Green (**) = Statistically lower than state
Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Research & Epidemiology Program

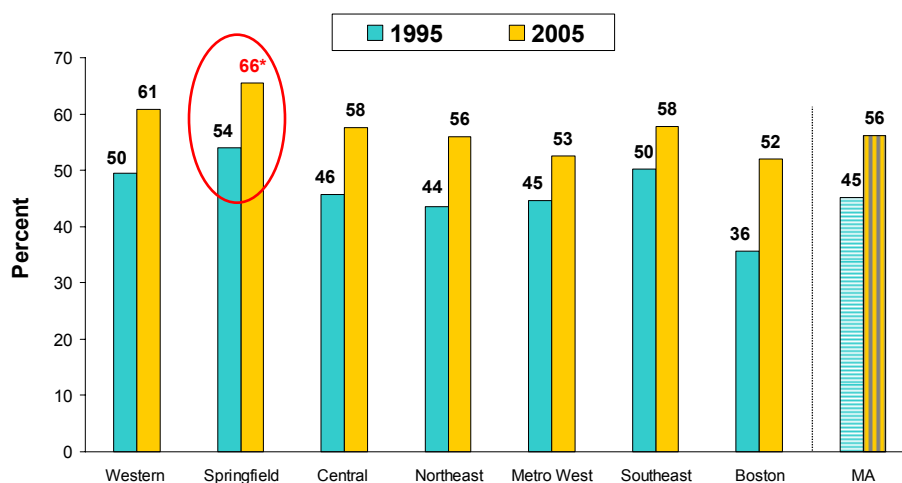
CHRONIC DISEASE OUTCOMES AND OVERWEIGHT/OBESITY

Thresholds for Defining Overweight and Obesity

<u>Height</u>	<u>Overweight</u> BMI 25.0-29.9	<u>Obesity</u> BMI > 30
5'	128 lbs.	153 lbs.
5'2"	136	164
5'4"	145	174
5'6"	155	186
5'8"	164	197
6'	184	221
6'2"	195	234

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

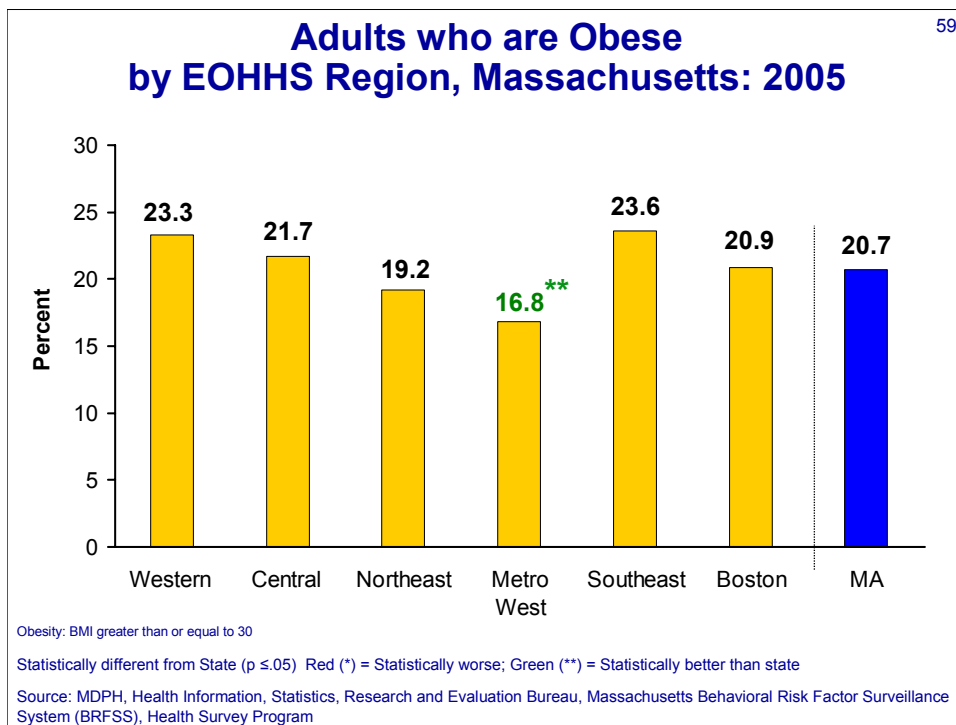
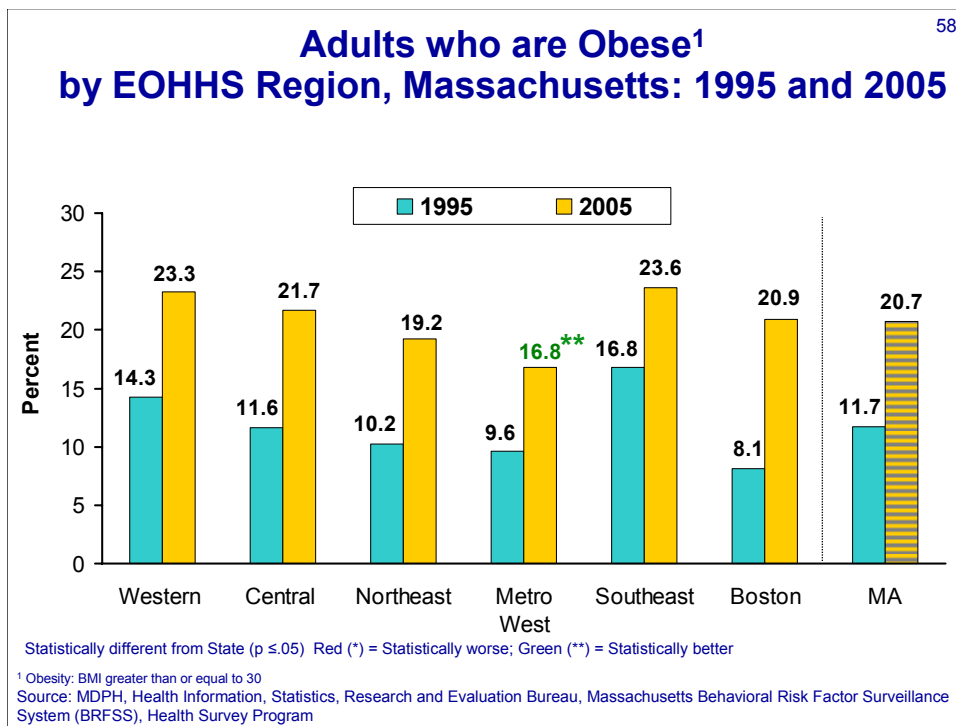
Adults who are Overweight¹ by EOHHS Region, Massachusetts: 1995 and 2005



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better

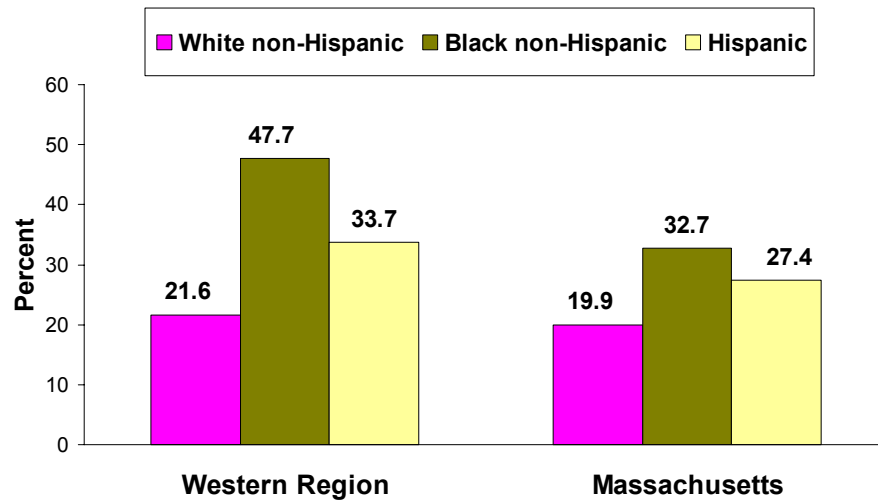
¹ Overweight: BMI greater than or equal to 25

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program



Obesity by Race and Ethnicity Western Region and Massachusetts: 2005

60

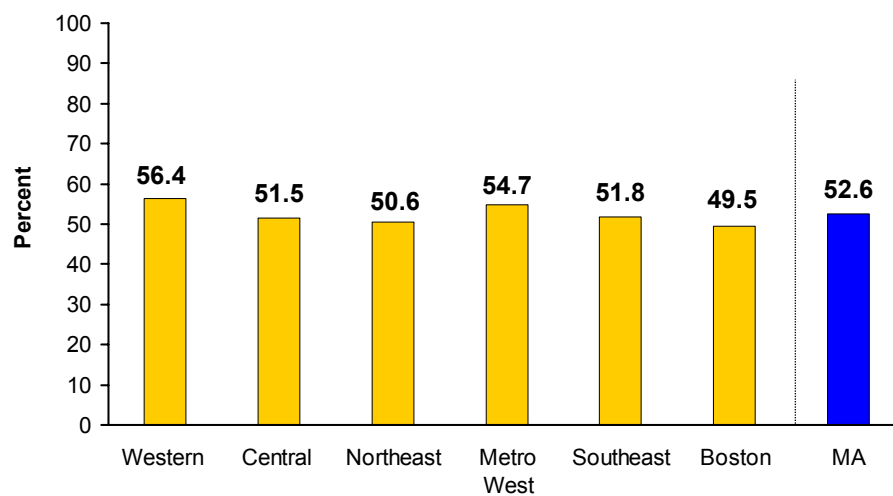


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Adults who Participate in Regular Physical Activity by EOHHS Region, Massachusetts: 2005

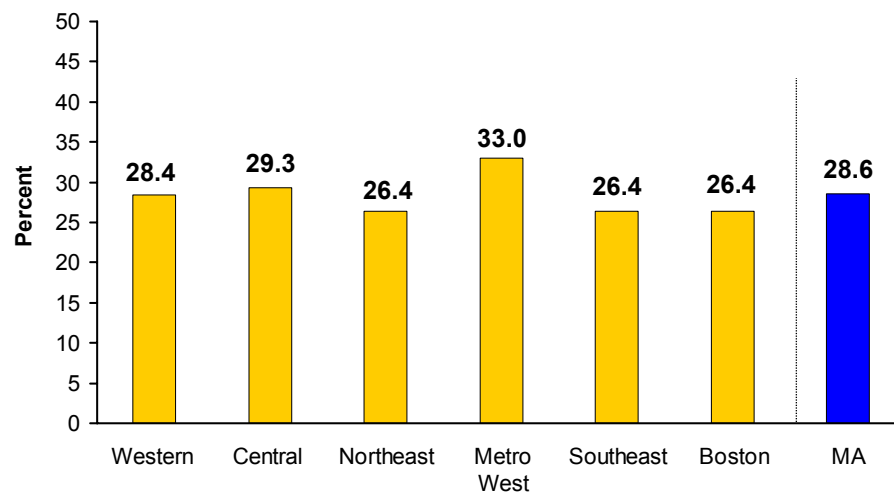
61



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

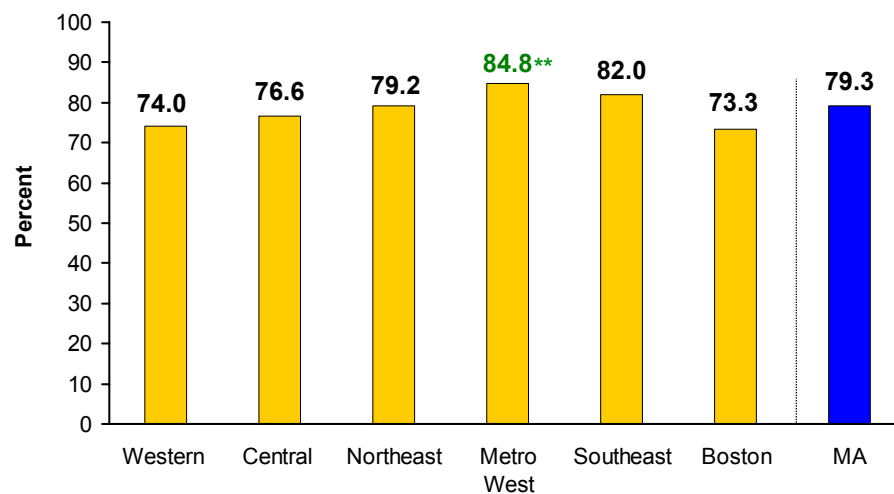
Adults who have 5+ Servings of Fruit or Vegetables⁶² by EOHHS Region, Massachusetts: 2005



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

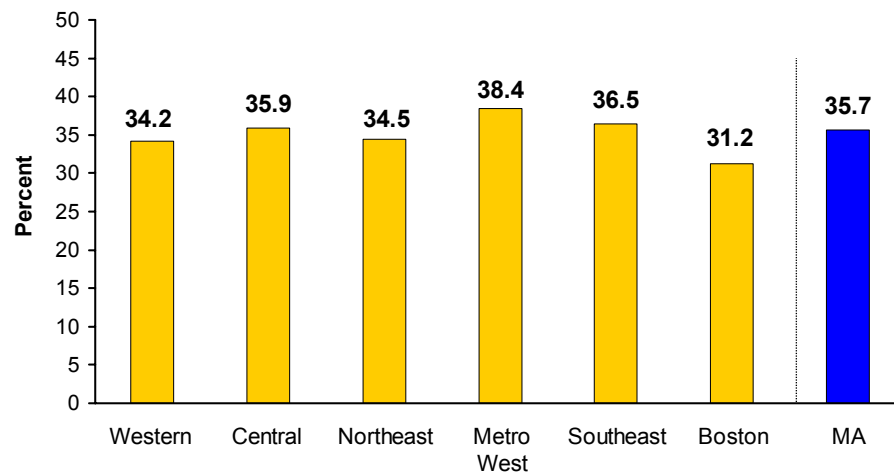
Adults who had their cholesterol checked in Past 5 Years by EOHHS Region, Massachusetts: 2005⁶³



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Adults who were told by a health care provider that they have high cholesterol¹ by EOHHS Region Massachusetts: 2005⁶⁴

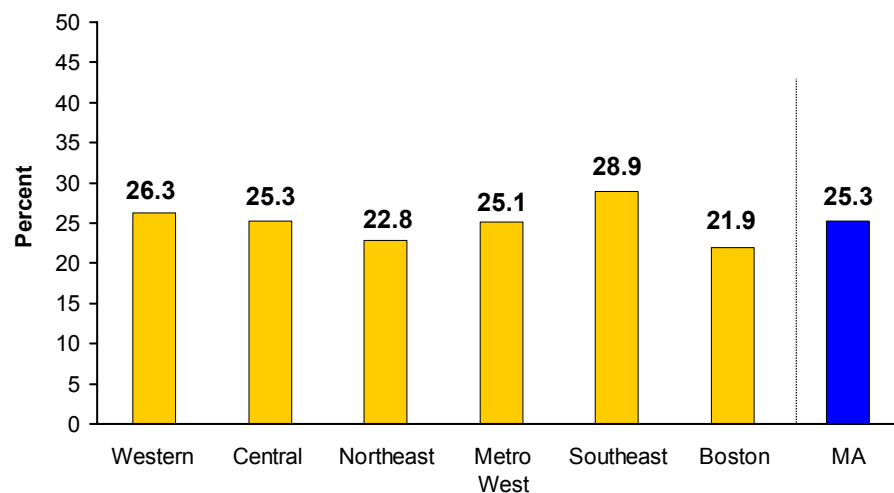


¹ Among those who reported having their cholesterol checked

Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

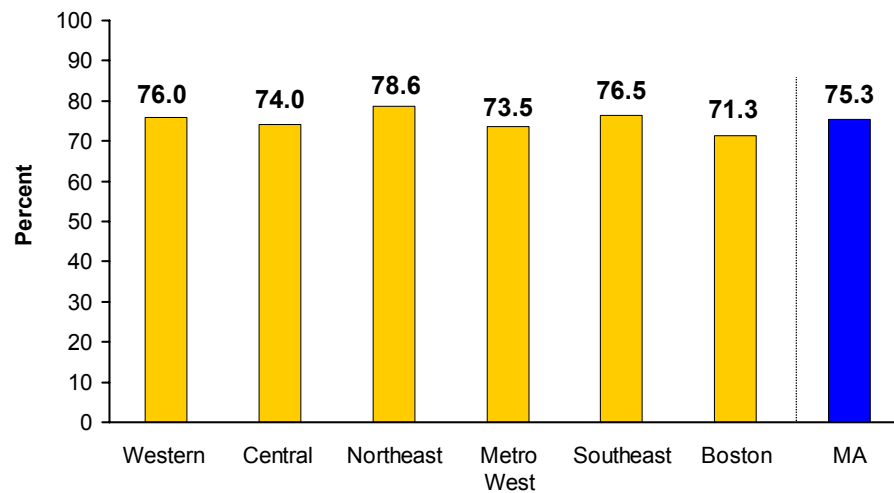
Adults who were told by a health care provider to have high blood pressure by EOHHS Region Massachusetts: 2005⁶⁵



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Adults who take Medicine for High Blood Pressure¹ by EOHHS Region, Massachusetts: 2005

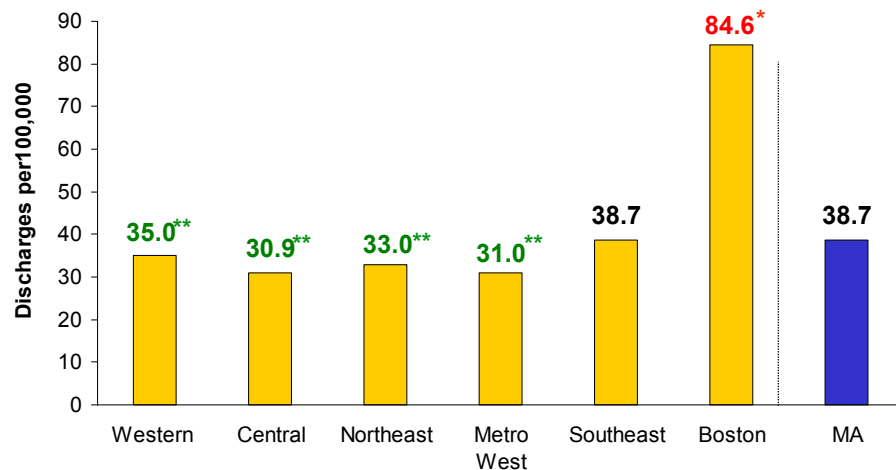


¹ Among those who reported having high blood pressure

Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Hypertension Hospital Discharges by EOHHS Region, Massachusetts: 2003-2005



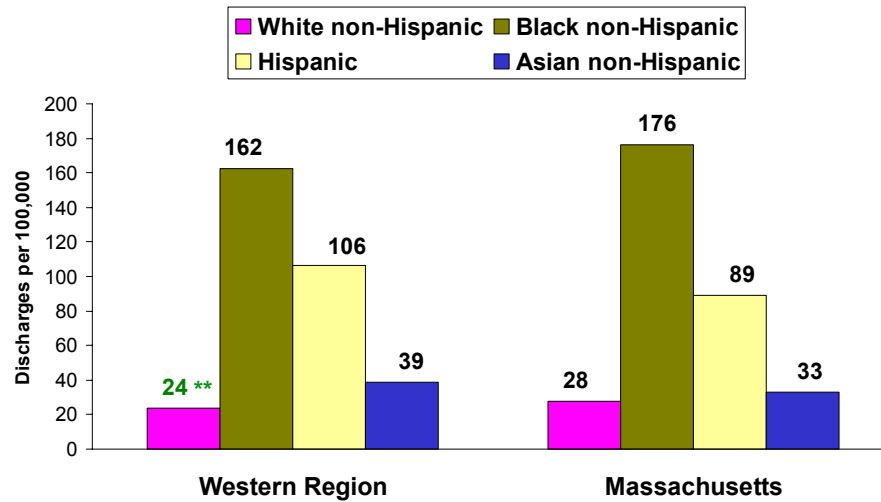
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Hypertension Hospital Discharge Rate by Race/Ethnicity Western Region Massachusetts: 2003-2005

68

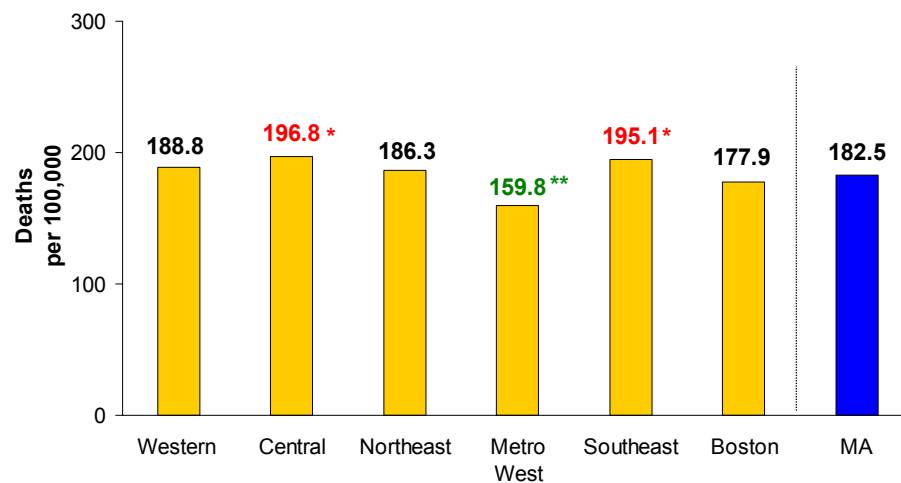


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Heart Disease Mortality Rates by EOHHS Region Massachusetts: 2003-2005

69



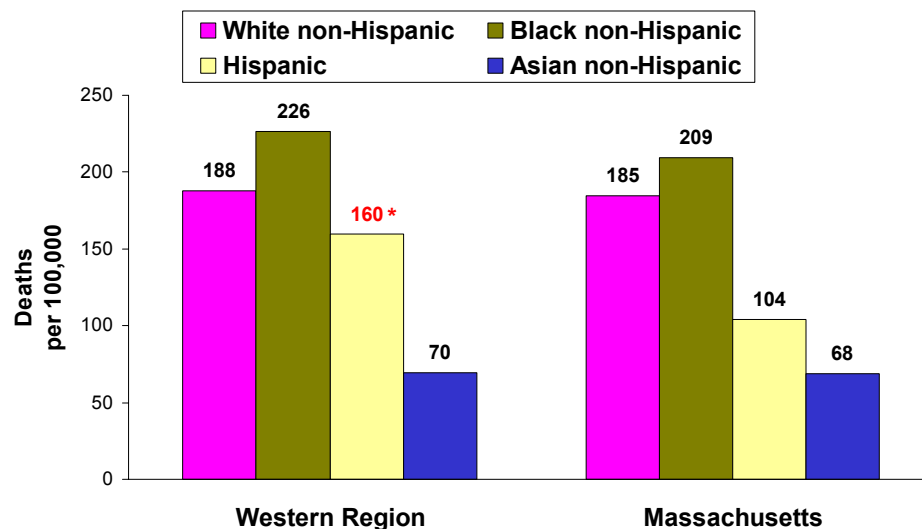
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Heart Disease Death Rate by Race/Ethnicity Western Region and Massachusetts: 2003-2005

70



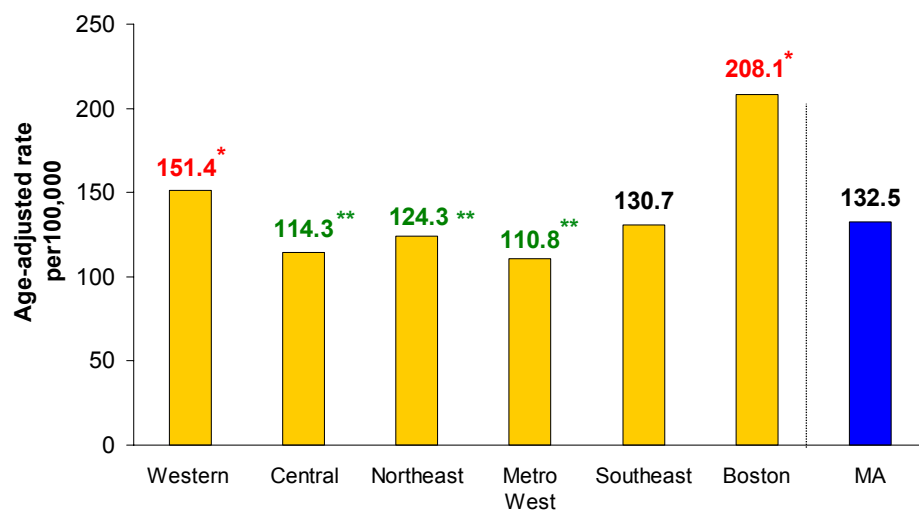
Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Diabetes Hospital Discharges by EOHHS Region, Massachusetts: 2003-2005

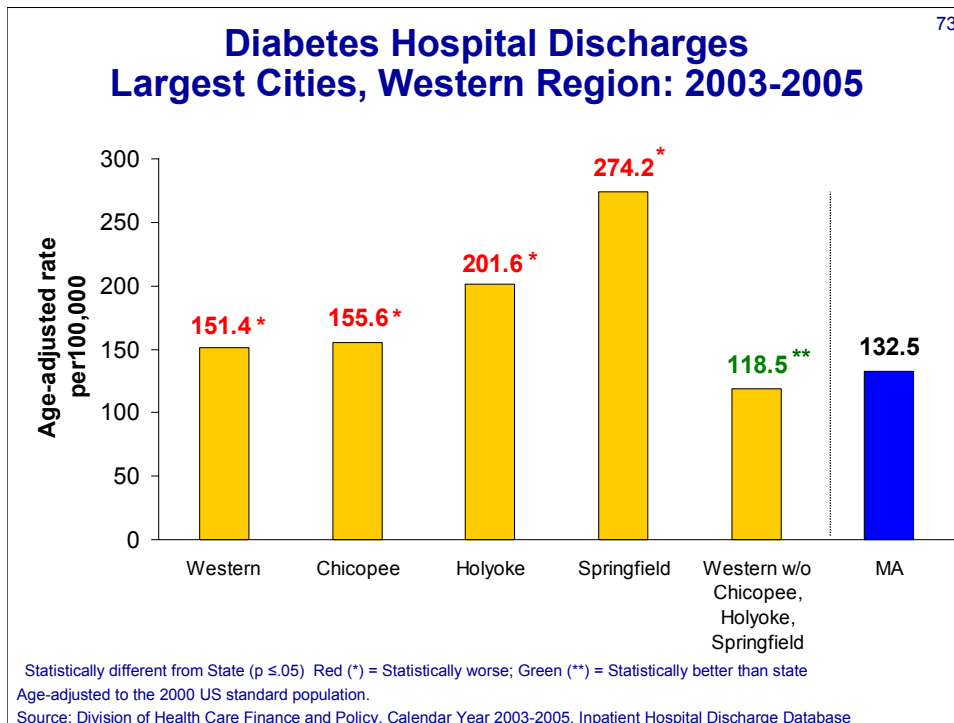
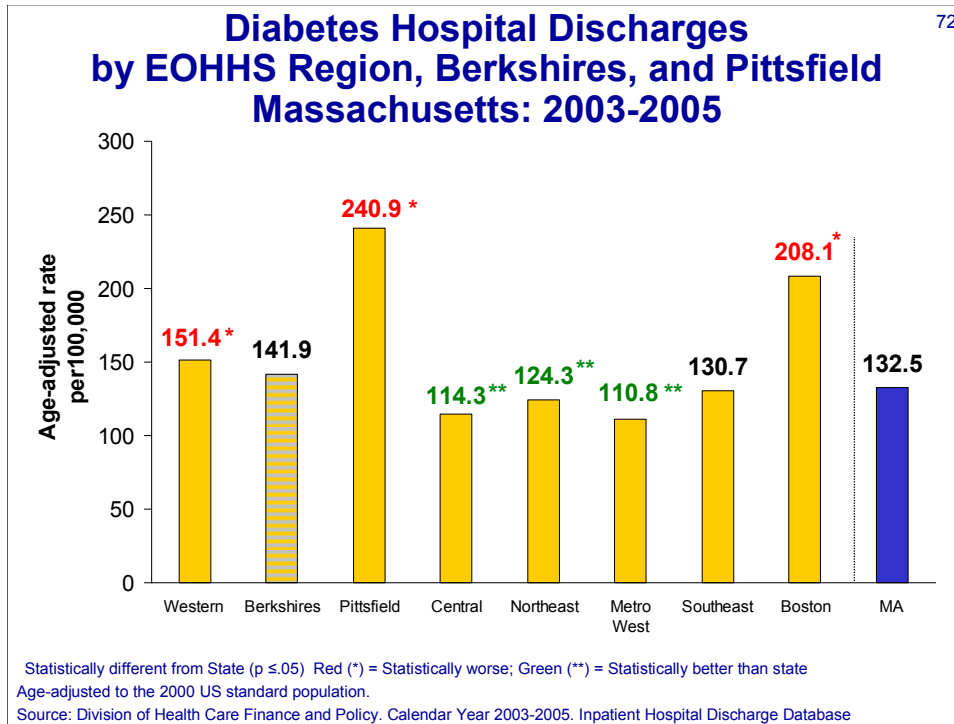
71



Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

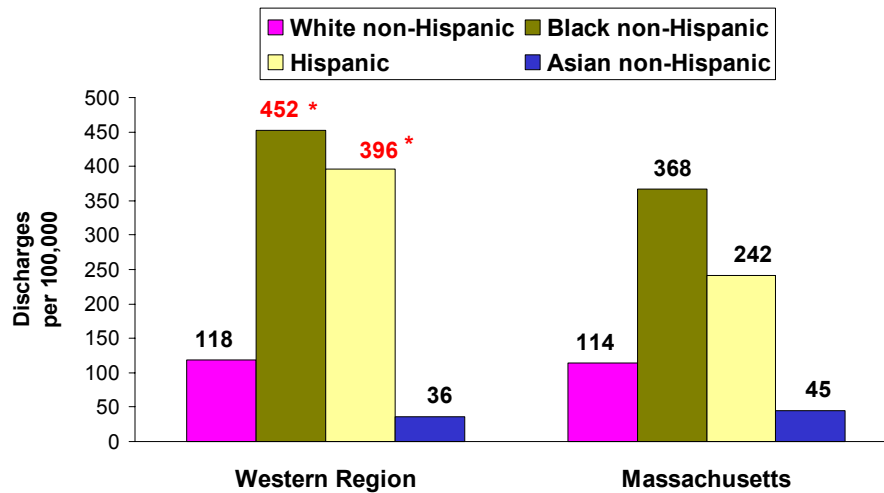
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database



Diabetes Hospital Discharge Rate by Race/Ethnicity Western Region and Massachusetts: 2003-2005

74

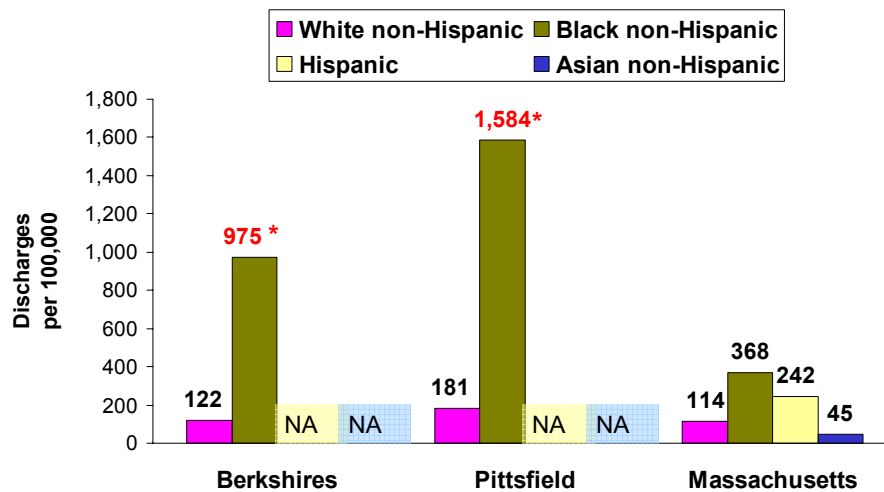


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Diabetes Hospital Discharge Rate by Race/Ethnicity Berkshires, Pittsfield & Massachusetts: 2003-2005

75

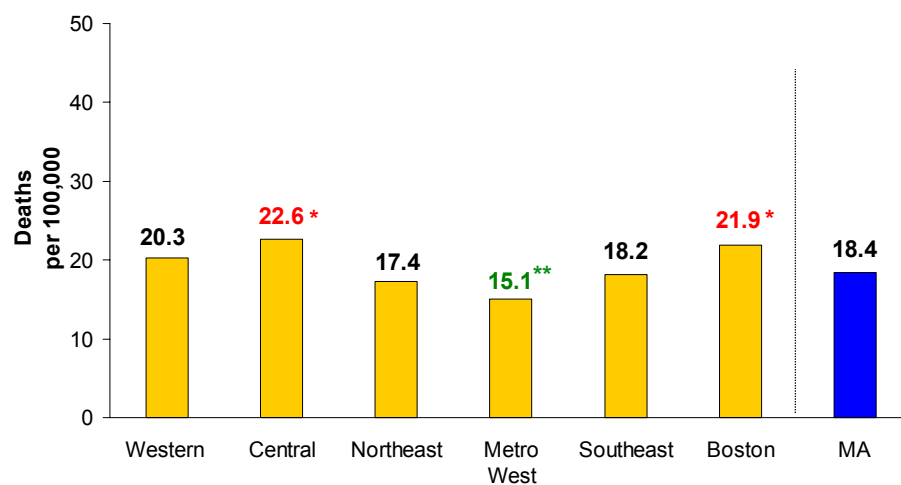


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Diabetes Mortality Rates by EOHHS Region Massachusetts: 2003-2005

76



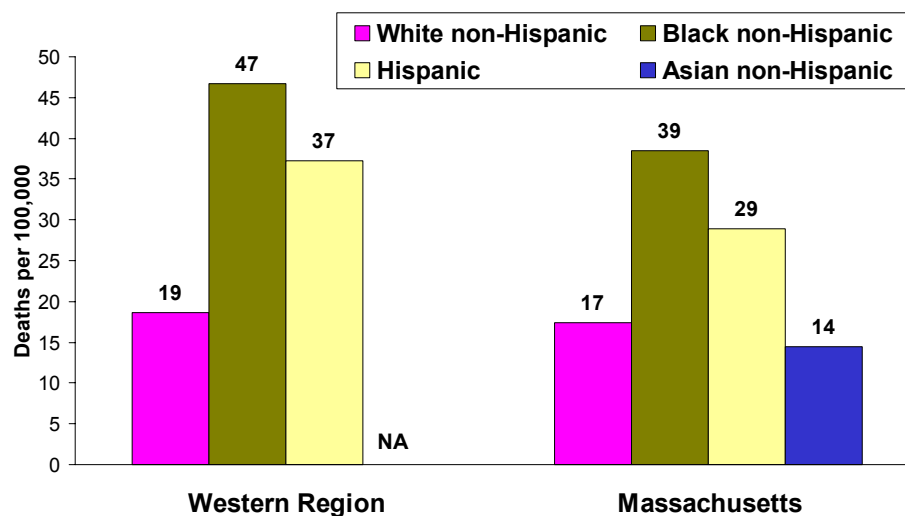
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Diabetes Death Rate by Race/Ethnicity Western Region and Massachusetts: 2003-2005

77



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Summary Indicators for Overweight/Obesity by EOHHS Region, Massachusetts: 2005

78

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
% Obese Adults	20.7	23.3	21.7	19.2	16.8	23.6	20.9
% Adults Participation in regular PA	52.6	56.4	51.5	50.6	54.7	51.8	49.5
% Adults with 5+ servings fruits/vegetables	28.6	28.4	29.3	26.4	33.0	26.4	26.4
% Adults who had cholesterol checked	79.3	74.0	76.6	79.2	84.8	82.0	73.3
% Adults with high cholesterol	35.7	34.2	35.9	34.5	38.4	36.5	31.2

Better Outcome (significantly different from state) Worse Outcome (significantly different from state)

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Summary Indicators for Chronic Disease Outcomes for Overweight/Obesity by EOHHS Region

79

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
% Adults with HBP	25.3	26.3	25.3	22.8	25.1	28.9	21.9
% Adults take HBP medications	75.3	76.0	74.0	78.6	73.5	76.5	71.3
Hypertension Hospital Discharges (2003-2005)	38.7	35.0	30.9	32.9	31.0	38.7	84.6
Heart Disease Death Rate (2003-2005)	182.5	188.8	196.8	186.3	159.8	195.1	177.9
Diabetes Hospital Discharges (2003-2005)	132.5	151.4	114.3	124.3	110.8	130.7	208.1
Diabetes Death Rate (2003-2005)	18.4	20.3	22.6	17.3	15.1	18.2	21.9

Better Outcome (significantly different from state) Worse Outcome (significantly different from state)

Summary Indicators for Chronic Disease Outcomes for Overweight/Obesity Communities in Western Region: 2003-2005

Indicator (age adjusted per 100,000)	MA Total	Western	Chicopee	Holyoke	Springfield
Hypertension Hospital Discharges (2003-2005)	38.7	35.0	43.3	45.6	75.7
Heart Disease Death Rate (2003-2005)	182.5	188.8	216.7	213.3	206.8
Diabetes Hospital Discharges (2003-2005)	132.5	151.4	155.6	201.6	274.2
Diabetes Death Rate (2003-2005)	18.4	20.3	21.1	30.6	27.1

 Better Outcome (significantly different from state)  Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Summary Indicators for Chronic Disease Outcomes for Overweight/Obesity Berkshires, Western Region, Massachusetts: 2003-2005

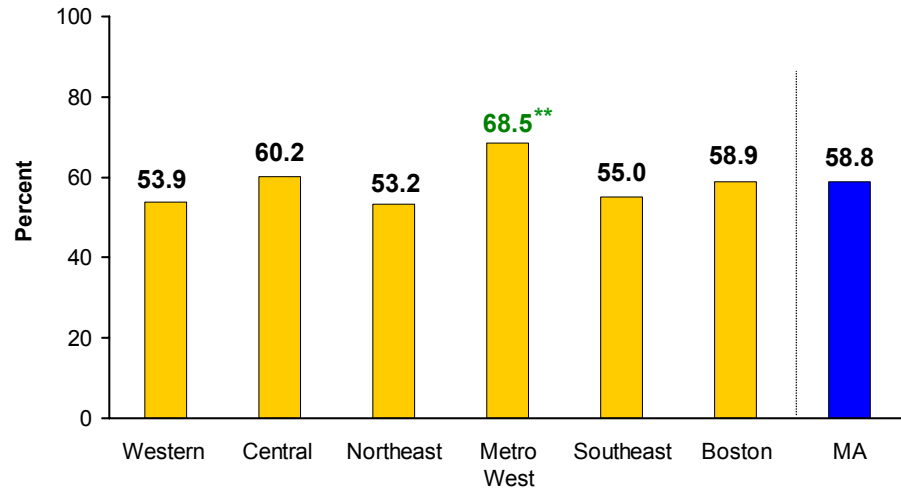
Indicator	MA Total	Western	Berkshires	Pittsfield
Hypertension Hospital Discharges (2003-2005)	38.7	35.0	22.6	30.5
Heart Disease Death Rate (2003-2005)	182.5	188.8		187.7
Diabetes Hospital Discharges (2003-2005)	132.5	151.4	141.9	240.9
Diabetes Death Rate (2003-2005)	18.4	20.3		26.2

 Better Outcome (significantly different from state)  Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

CANCER

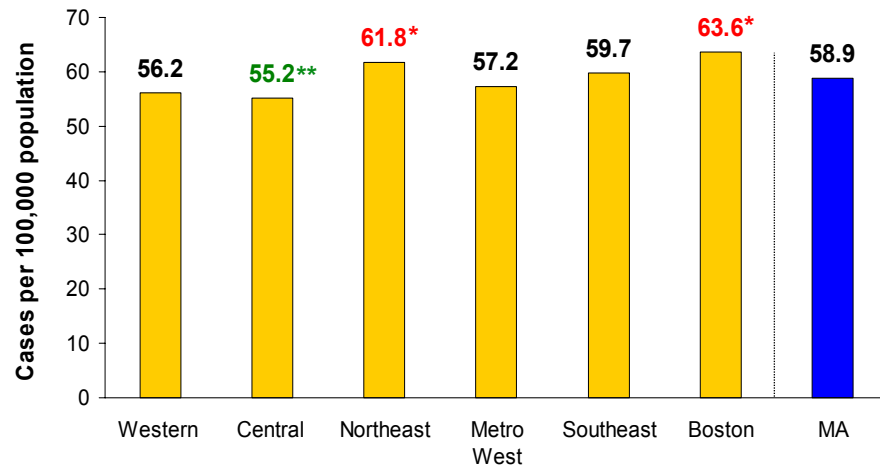
Adults Ages 50+ who have had a Sigmoidoscopy or Colonoscopy in Past 5 Years by EOHHS Region Massachusetts: 2005 ⁸²



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research and Evaluation Bureau, Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), Health Survey Program

Incidence Rates for Invasive Colorectal Cancer by EOHHS Region, Massachusetts: 1999-2003 ⁸³

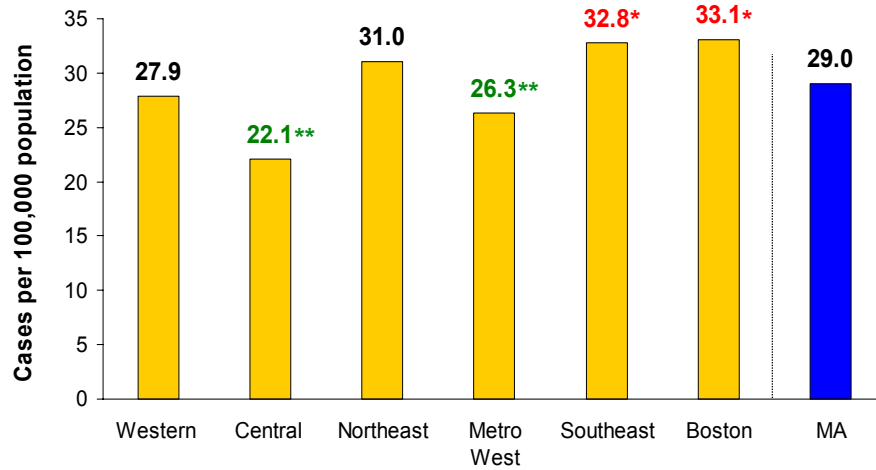


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry

Incidence Rates for Early Stage Colorectal Cancer⁸⁴ **MALES** by EOHHS Region, Massachusetts: 1999-2003

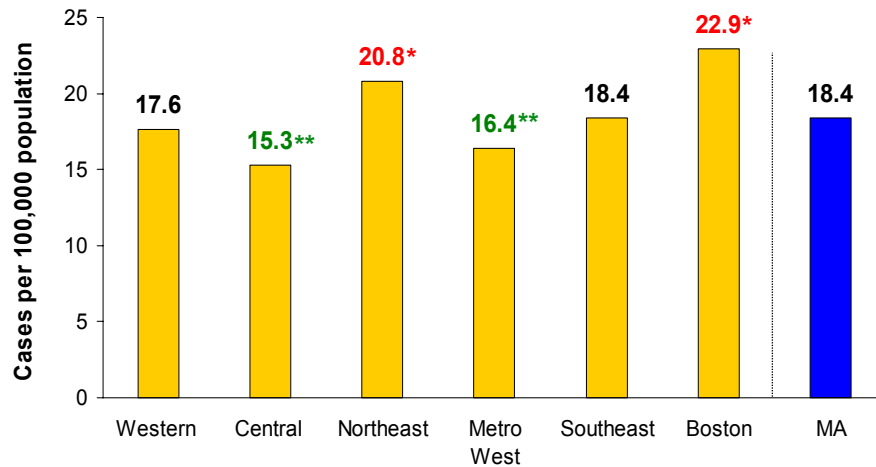


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry

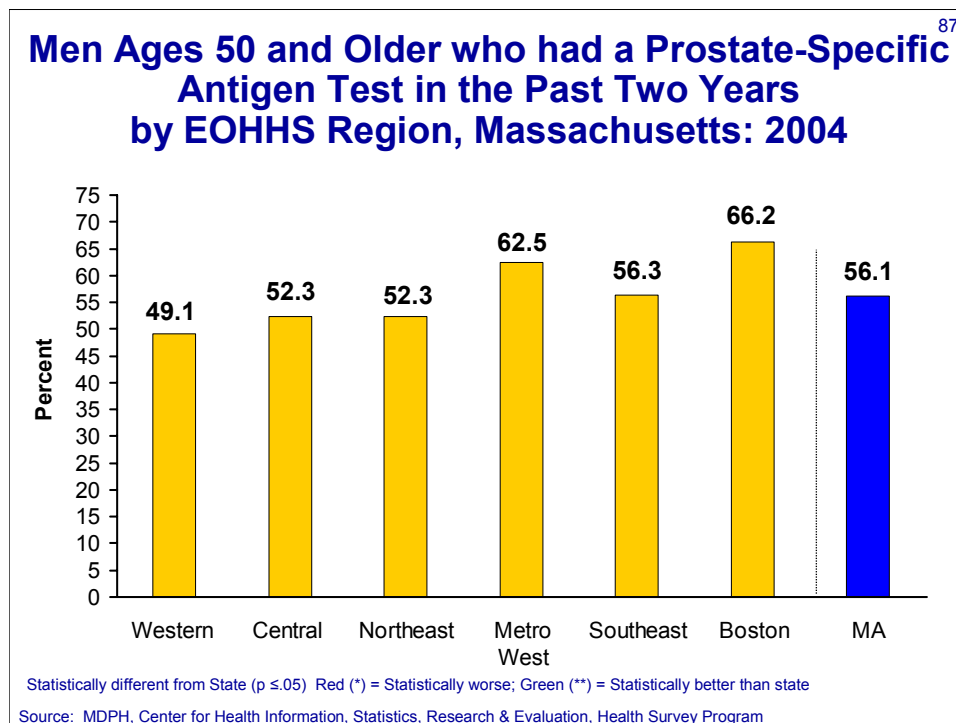
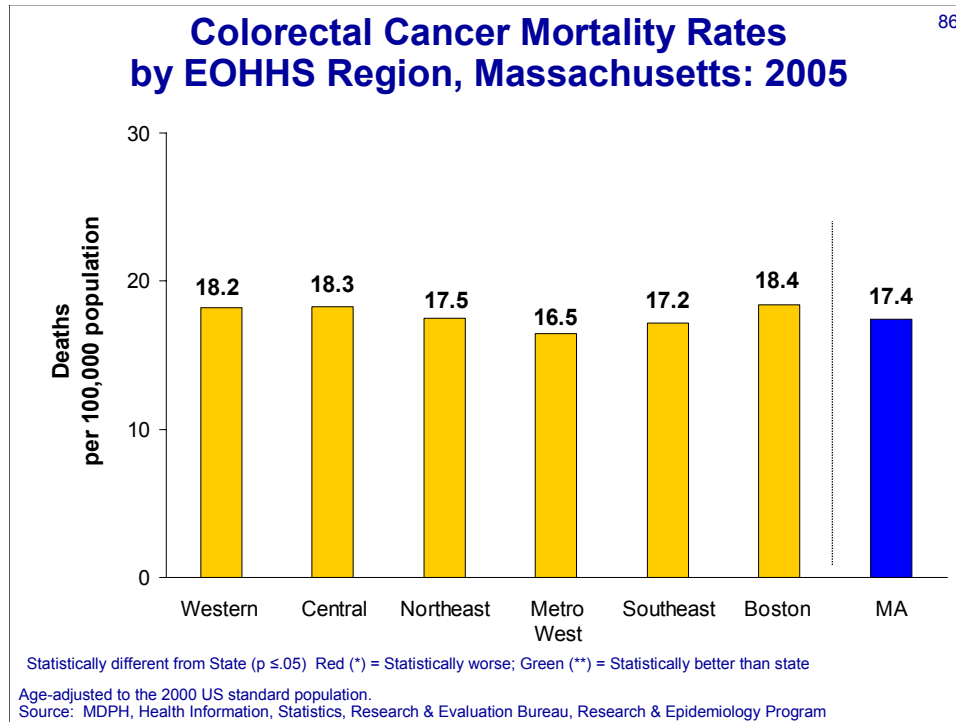
Incidence Rates for Early Stage Colorectal Cancer⁸⁵ **FEMALES** by EOHHS Region, Massachusetts: 1999-2003



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

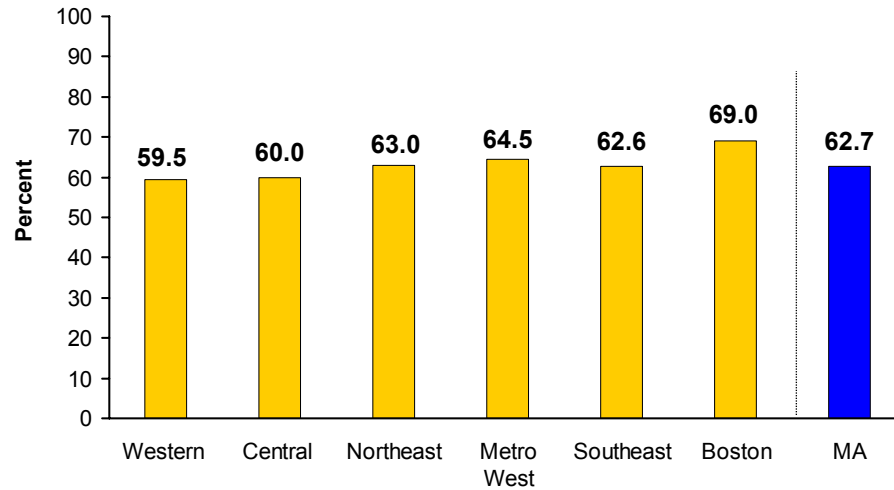
Age-adjusted to the 2000 US standard population.

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry



Men Ages 50 and Older who had a Digital Rectal Exam in the Past Two Years by EOHHS Region Massachusetts: 2004

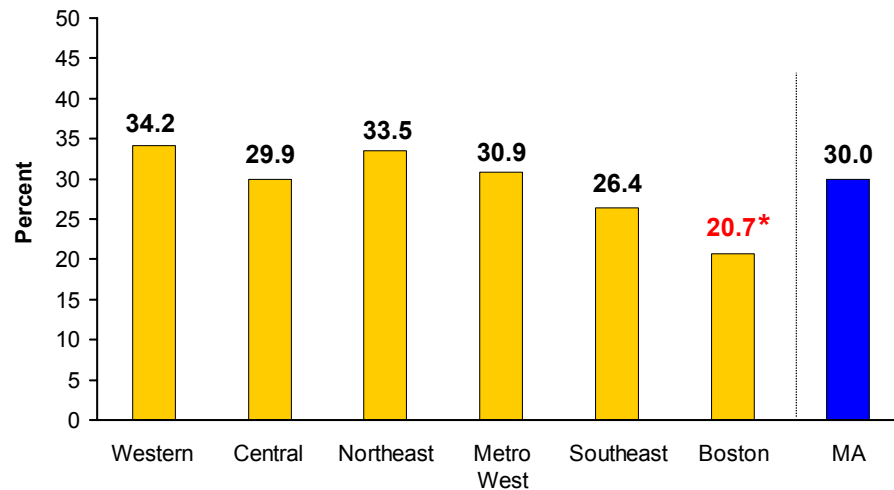
88



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Adults Ages 50 and Older who had a Blood Stool Test in the Past Two Years by EOHHS Region Massachusetts: 2005

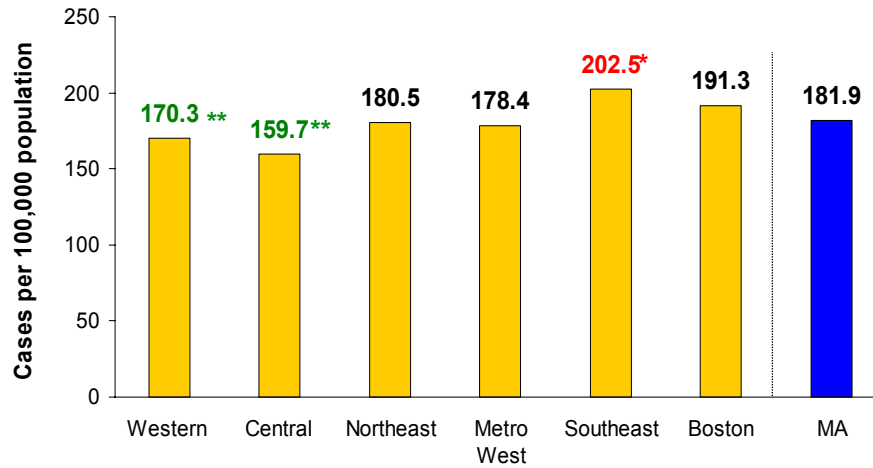
89



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Incidence Rates for Invasive Prostate Cancer by EOHHS Region, Massachusetts: 1999-2003

90



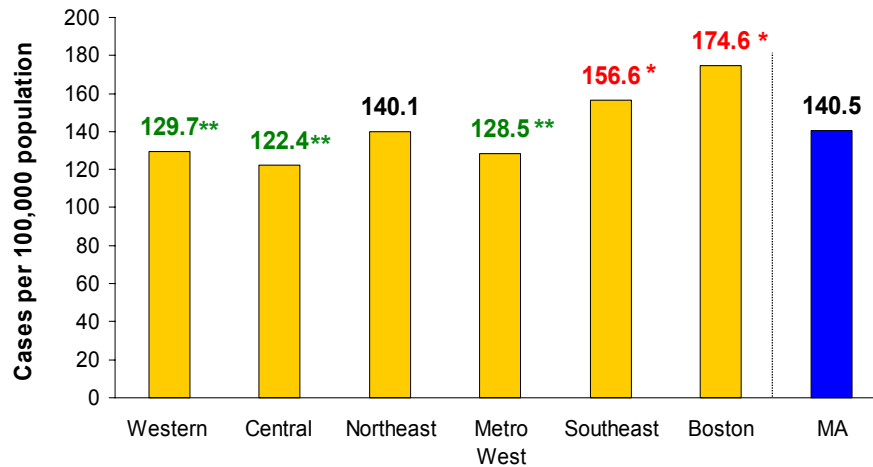
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry

Incidence Rates for Early Stage Prostate Cancer by EOHHS Region, Massachusetts: 1999-2003

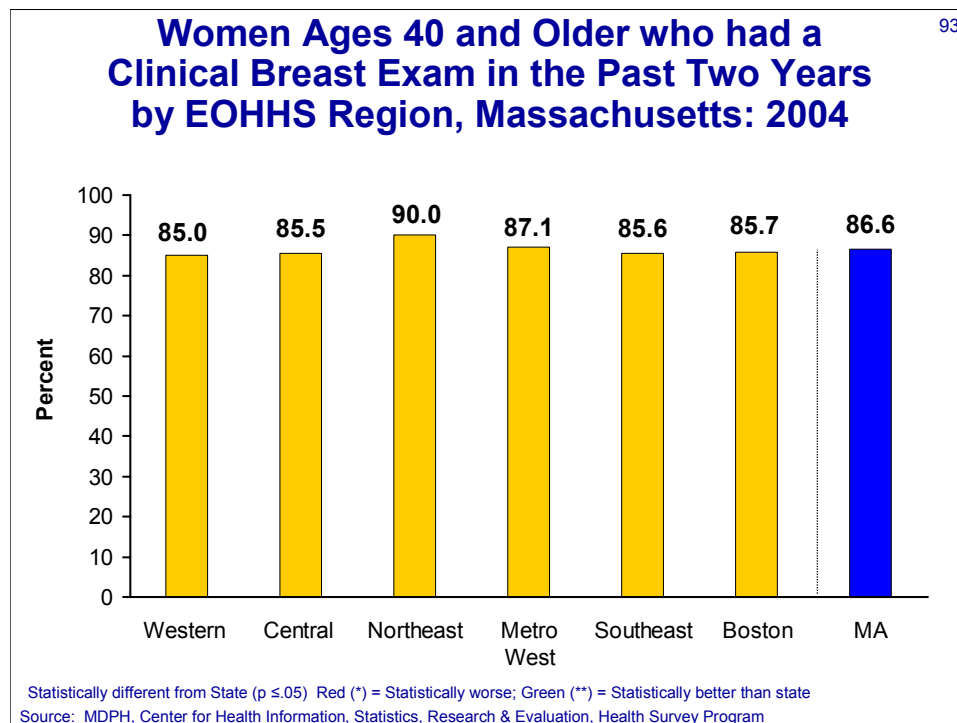
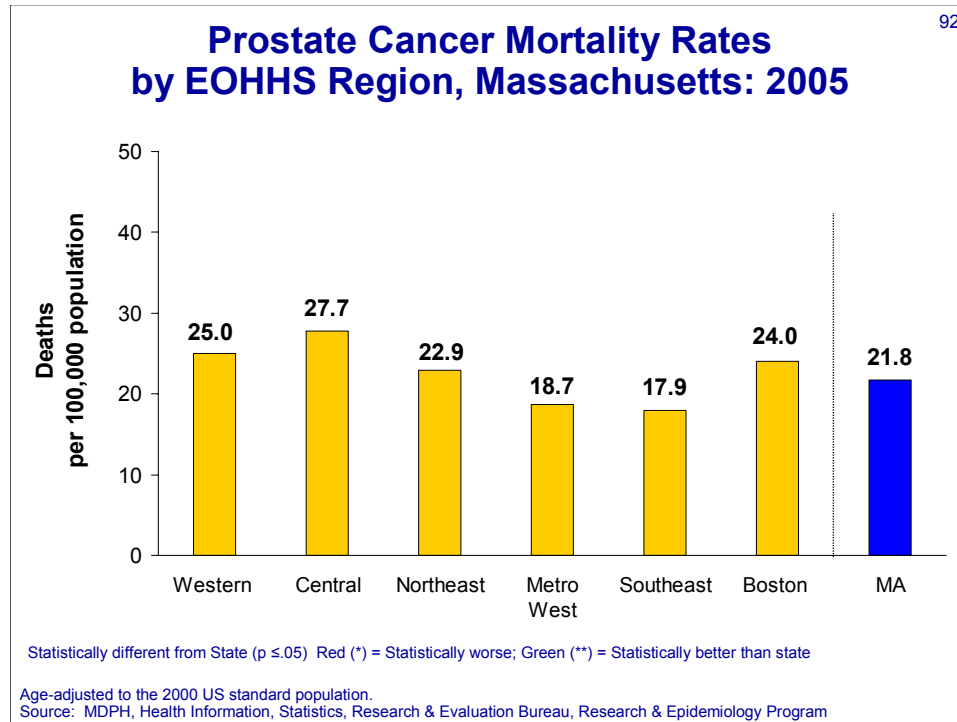
91



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

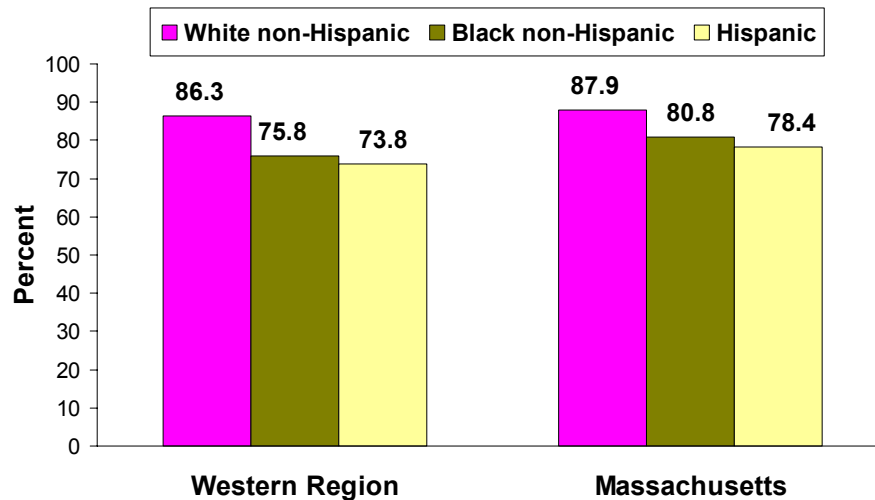
Age-adjusted to the 2000 US standard population.

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry



Women who had a Clinical Breast Exam in Past Two Years by Race and Ethnicity Western Region and Massachusetts: 2004

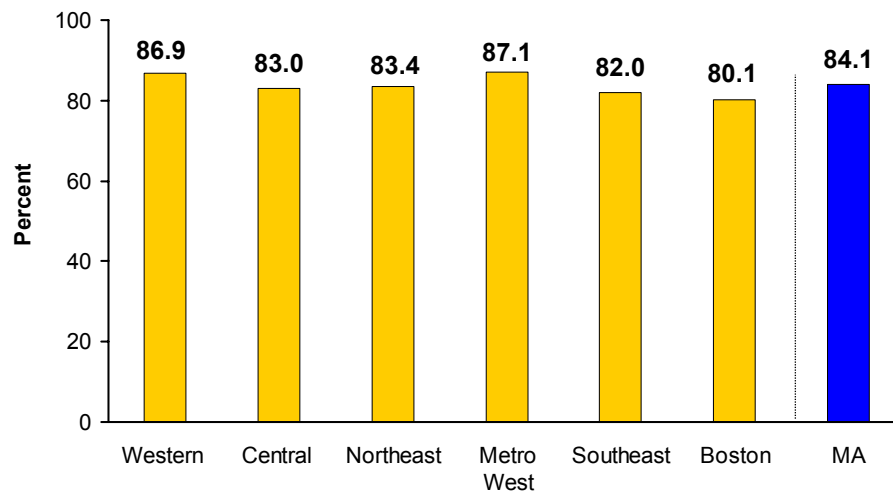
94



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

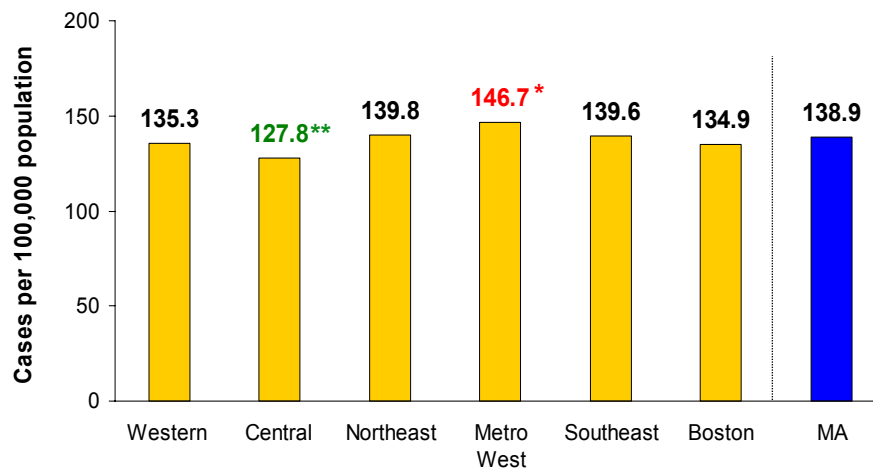
Women Ages 40+ who have had a mammography in Past 2 Years by EOHHS Region Massachusetts: 2005

95



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Incidence Rates for Invasive Female Breast Cancer by EOHHS Region, Massachusetts: 1999-2003 ⁹⁶

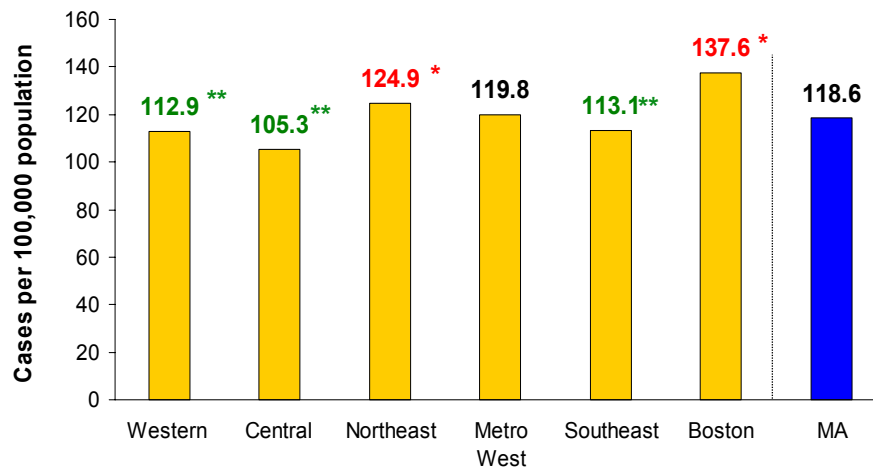


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry

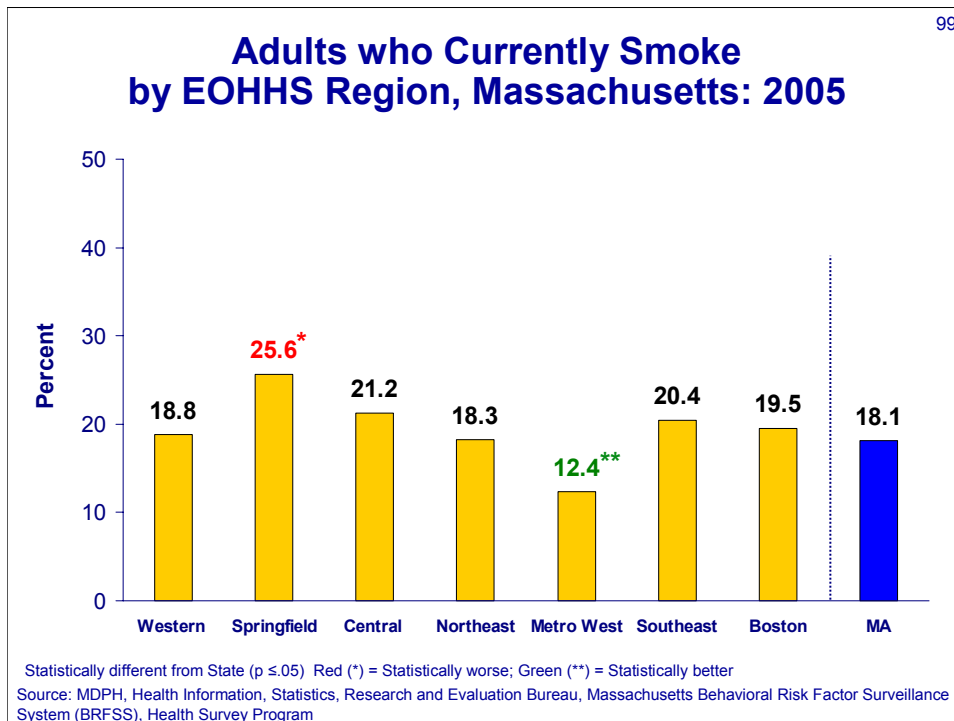
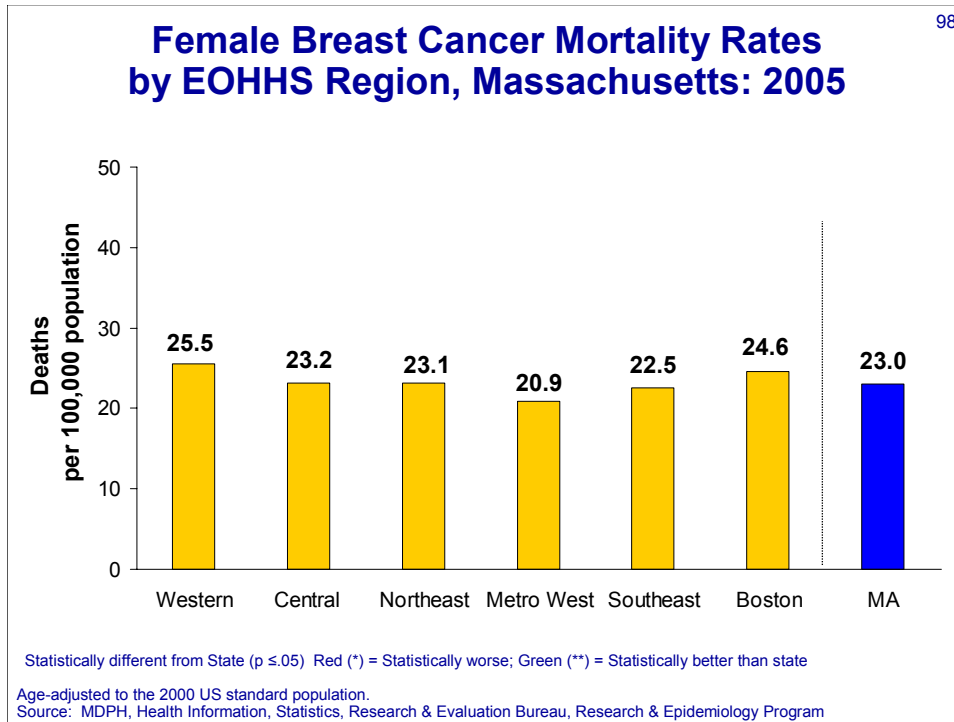
Incidence Rates for Early Stage Female Breast Cancer by EOHHS Region, Massachusetts: 1999-2003 ⁹⁷



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

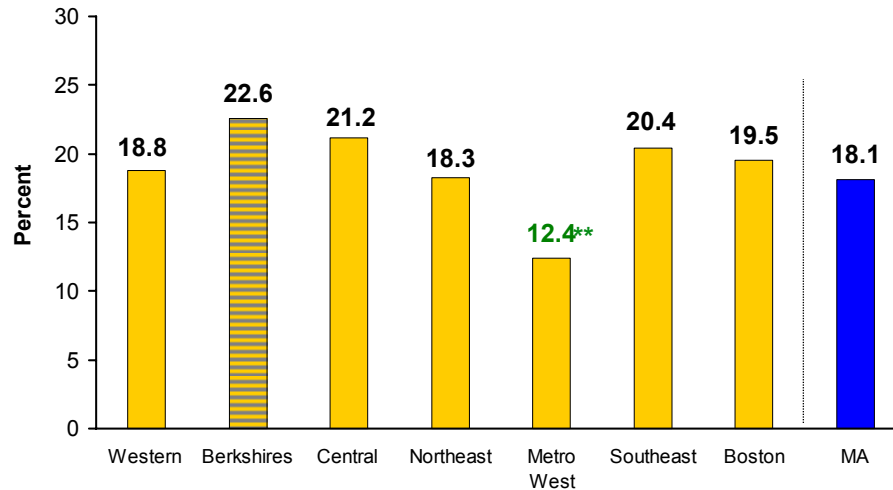
Age-adjusted to the 2000 US standard population.

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry



Adults who Currently Smoke by EOHHS Region and Berkshires, Massachusetts: 2005

100

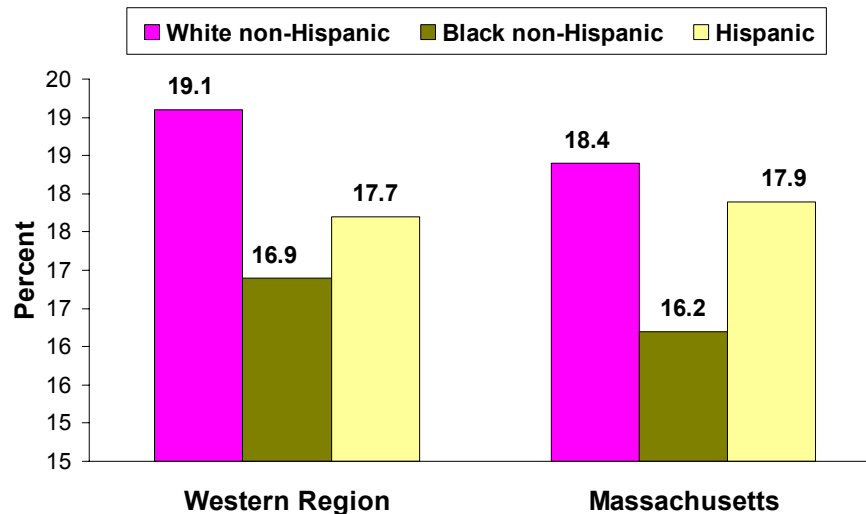


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Current Smoker by Race and Ethnicity Western Region and Massachusetts: 2005

101



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

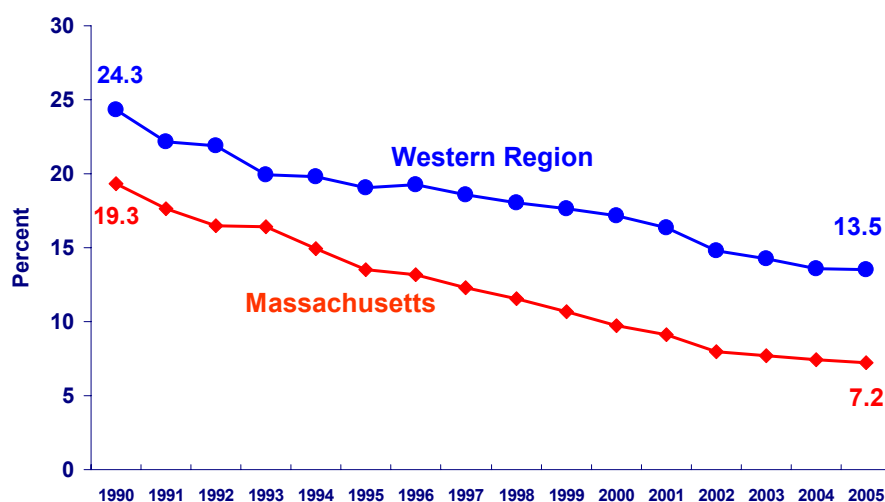
Percent of Mothers Smoking During Pregnancy for Largest Communities in Western Region: 2005

	<u>%</u>	<u>Smokers</u>	<u>Births</u>
Massachusetts	7.2%	5,555	76,653
Western Region	13.5%*	1,203	8,935
<u>Lowest</u>			
Amherst	2.0%**	9	166
Holyoke	5.3%**	47	642
Northampton	3.7%**	14	191
<u>Highest</u>			
North Adams	37.7%*	58	155
Pittsfield	24.5%*	128	526
Palmer	23.1%*	33	138
Springfield	14.8%	349	2,369

Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

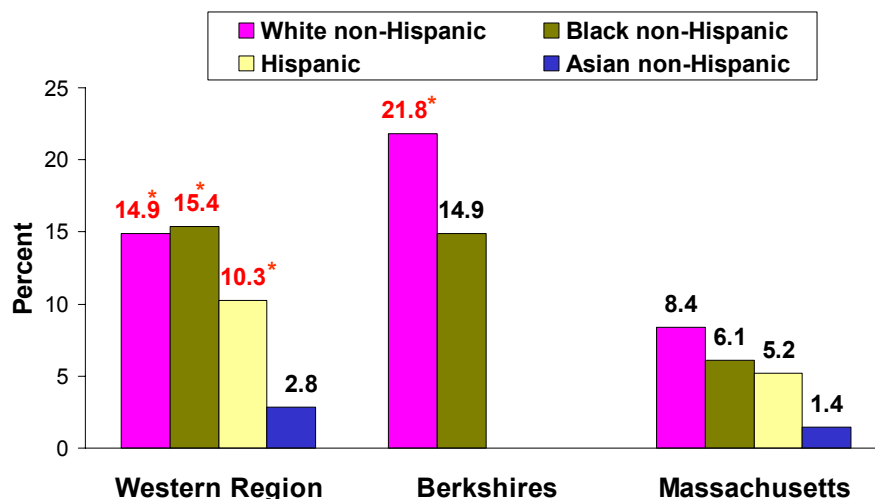
Smoking During Pregnancy Western Region and Massachusetts: 1990-2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Smoking During Pregnancy by Race and Ethnicity Western Region, Berkshires, and Massachusetts: 2005

104

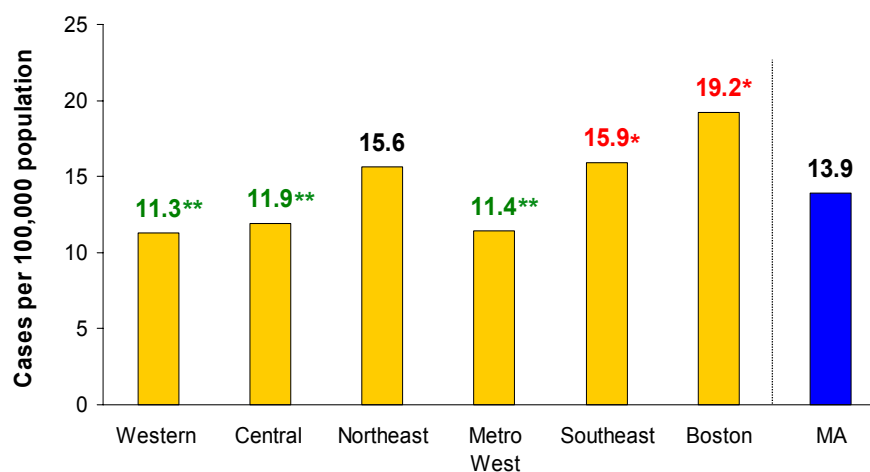


Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Incidence Rates for Early Stage Lung Cancer MALES by EOHHS Region, Massachusetts: 1999-2003

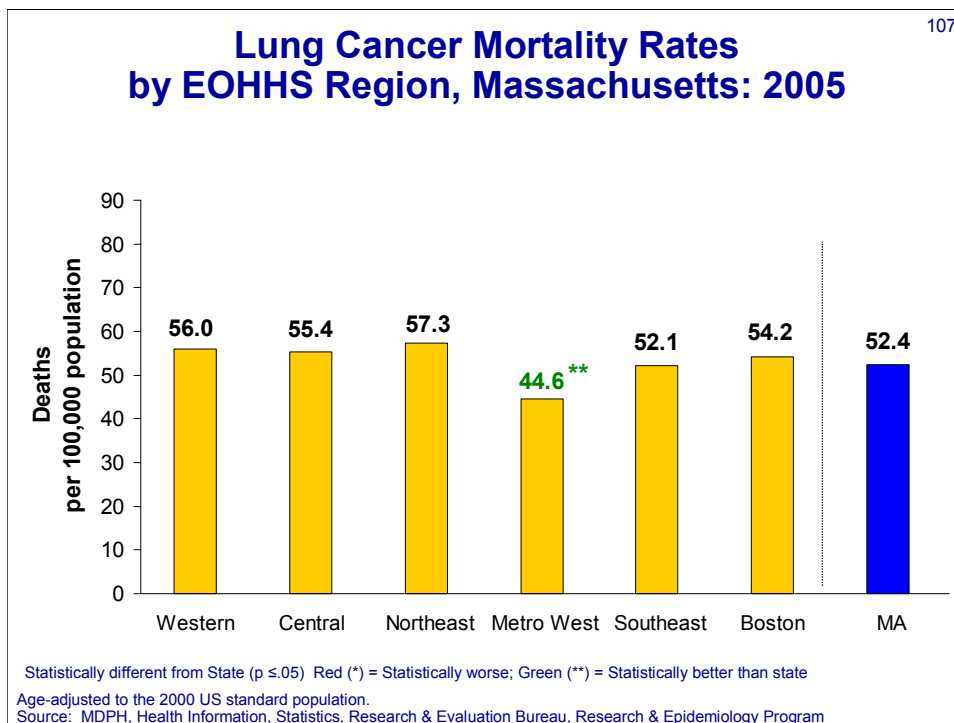
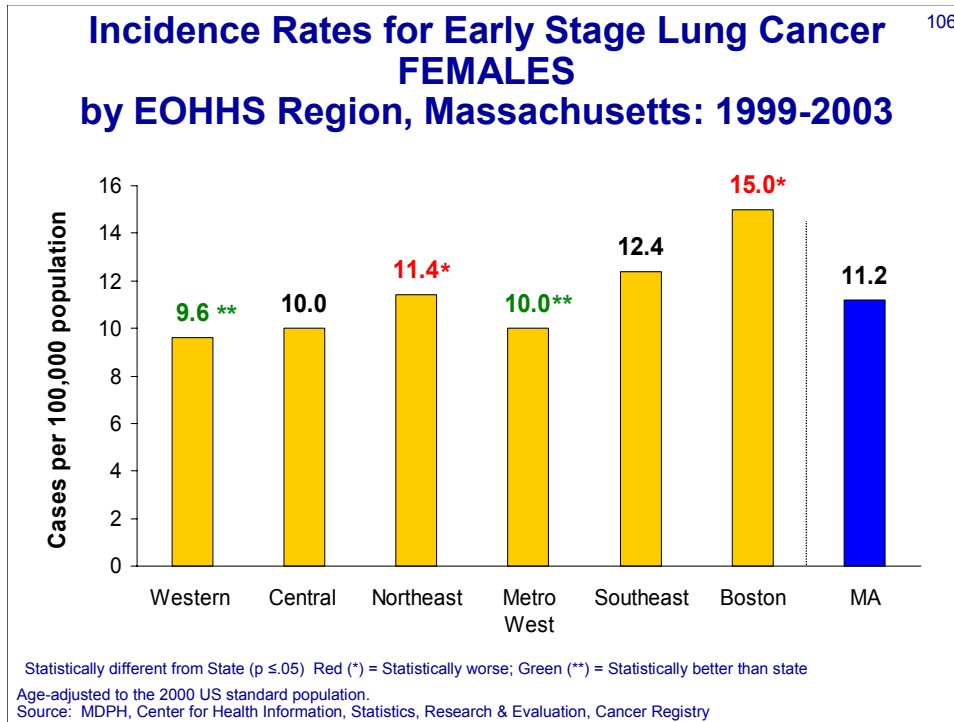
105



Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

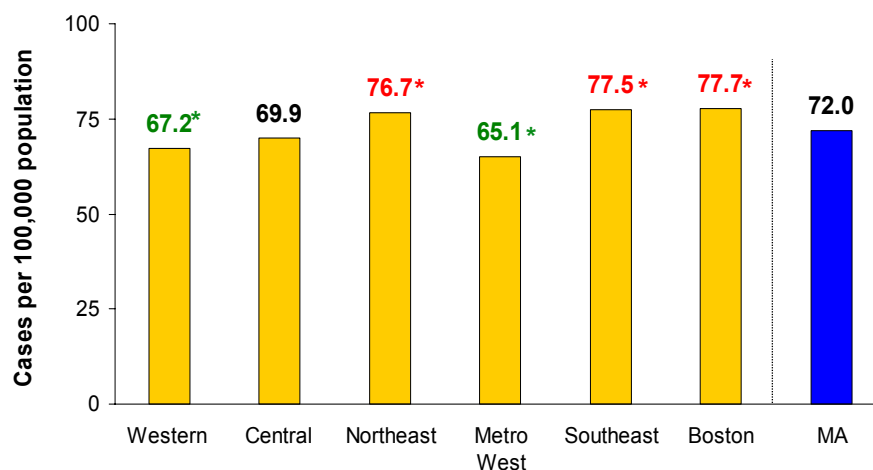
Age-adjusted to the 2000 US standard population.

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry



Incidence Rates for Invasive Lung Cancer by EOHHS Region, Massachusetts: 1999-2003

108



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry

Summary Indicators for Cancer Screening by EOHHS Regions, Massachusetts: 2005

109

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
% Men† PSA (2004)	56.1	49.1	52.3	52.3	62.5	56.3	66.2
% Men† DRE (2004)	62.7	59.5	60.0	63.0	64.5	62.6	69.0
% Blood Stool Test †	30.0	34.2	29.9	33.5	30.9	26.4	20.7
% Adults Sigmoidoscopy or Colonoscopy†	58.8	53.9	60.2	53.2	68.5	55	58.9
% Women Clinical Breast Exam (2004)	86.6	85.0	85.5	90.0	87.1	85.6	85.7
% Women* Mammography	84.1	86.9	83.0	83.4	87.1	82.0	80.1

*40 years and older, † 50 years and older

Better Outcome (significantly different from state)
 Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Health Survey Program

Summary Cancer Indicators (Early Stage) by EOHHS Region, Massachusetts: 1999-2003

110

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
Prostate Cancer Incidence	140.5	129.7	122.4	140.1	128.5	156.6	174.6
Female Breast Cancer Incidence	118.6	112.9	105.3	124.9	119.8	113.1	137.6
Colorectal Cancer Incidence	26.9	25.9	21.3	29.5	24.3	28.7	32.0
Lung Cancer Incidence	14.4	12.0	12.7	15.3	12.4	16.1	19.6

Better Outcome (significantly different from state)
 Worse Outcome (significantly different from state)

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry

Summary Cancer Indicators (Late Stage) by EOHHS Region, Massachusetts: 1999-2003

111

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
Prostate Cancer Incidence	5.5	4.9	5.2	5.9	3.9	6.2	8.7
Female Breast Cancer Incidence	37.8	37.9	31.7	37.0	36.8	38.4	47.3
Colorectal Cancer Incidence	33.8	30.6	32.9	35.2	30.6	34.4	42.7
Lung Cancer Incidence	50.3	45.8	48.6	54.1	41.4	55.1	63.2

Better Outcome (significantly different from state)
 Worse Outcome (significantly different from state)

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry

Summary Invasive Cancer Incidence Rates by EOHHS Region, Massachusetts: 1999-2003

112

Indicator (age-adjusted per 100,000)	MA Total	Western	Central	North East	Metro West	Southeast	Boston
Prostate Cancer	181.9	170.3	159.7	180.5	178.4	202.5	191.3
Female Breast Cancer	138.9	135.3	127.8	139.8	146.7	139.6	134.9
Colorectal Cancer	58.9	56.2	55.2	61.8	57.2	59.7	63.6
Lung Cancer	72.0	67.2	69.9	76.7	65.1	77.5	77.7
Total Cancer	517.0	485.6	478.2	529.4	509.9	543.1	545.1

Better Outcome (significantly different from state) Worse Outcome (significantly different from state)

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry

Summary Invasive Cancer Incidence Rates Communities in Western Region: 1999-2003

113

Indicator	MA Total	Western	Chicopee	Holyoke	Springfield
Prostate Cancer Incidence	181.9	170.3	186.9	149.4	166.0
Female Breast Cancer Incidence	138.9	135.3	137.6	115.0	130.1
Colorectal Cancer Incidence	58.9	56.2	58.7	61.7	55.9
Lung Cancer Incidence	72.0	67.2	68.0	80.6	66.3
Total Cancer	517.0	485.6	507.8	482.7	474.9

Better Outcome (significantly different from state) Worse Outcome (significantly different from state)

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry

Summary Invasive Cancer Incidence Rates by Western Region, Massachusetts: 1999-2003

114

Indicator	MA Total	Western	Berkshires	Pittsfield
Prostate Cancer Incidence	181.9	170.3	182.3	178.1
Female Breast Cancer Incidence	138.9	135.3	129.74	135.9
Colorectal Cancer Incidence	58.9	56.2	62.64	63.7
Lung Cancer Incidence	72.0	67.2	74.57	81.9

 Better Outcome (significantly different from state)  Worse Outcome (significantly different from state)

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Cancer Registry

Summary Cancer Mortality Indicators by EOHHS Region, Massachusetts: 2005

115

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
Prostate Cancer Death Rate	21.8	25.0	27.7	22.9	18.7	17.9	24.0
Colorectal Cancer Death Rate	17.4	18.2	18.3	17.5	16.4	17.2	18.4
Female Breast Cancer Death Rate	23.0	25.5	23.1	23.1	20.9	22.5	24.6
Lung Cancer Death Rate	52.4	56.0	55.4	57.3	44.6	52.1	54.2

 Better Outcome (significantly different from state)  Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Summary Cancer Mortality Indicators Communities in Western Region: 2005

116

Indicator	MA Total	Western	Chicopee	Holyoke	Pittsfield	Springfield
Prostate Cancer Death Rate	21.8	25.0	42.0	25.6	19.4	14.1
Colorectal Cancer Death Rate	17.4	18.2	24.0	26.2	12.9	11.6
Female Breast Cancer Death Rate	23.0	25.5	12.8	25.4	28.1	25.9
Lung Cancer Death Rate	52.4	56.0	67.3	45.2	58.9	65.5

 Better Outcome (significantly different from state)  Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Summary Cancer Mortality Indicators Berkshires, Western Region, Massachusetts: 2005

117

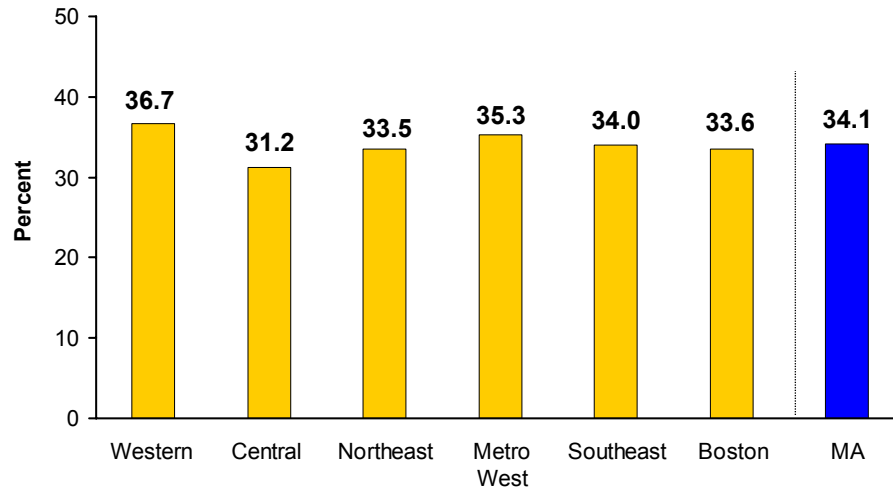
Indicator	MA Total	Western	Berkshires
Prostate Cancer Death Rate	21.8	25.0	24.9
Colorectal Cancer Death Rate	17.4	18.2	16.1
Female Breast Cancer Death Rate	23.0	25.5	20.5
Lung Cancer Death Rate	52.4	56.0	56.3

 Better Outcome (significantly different from state)  Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

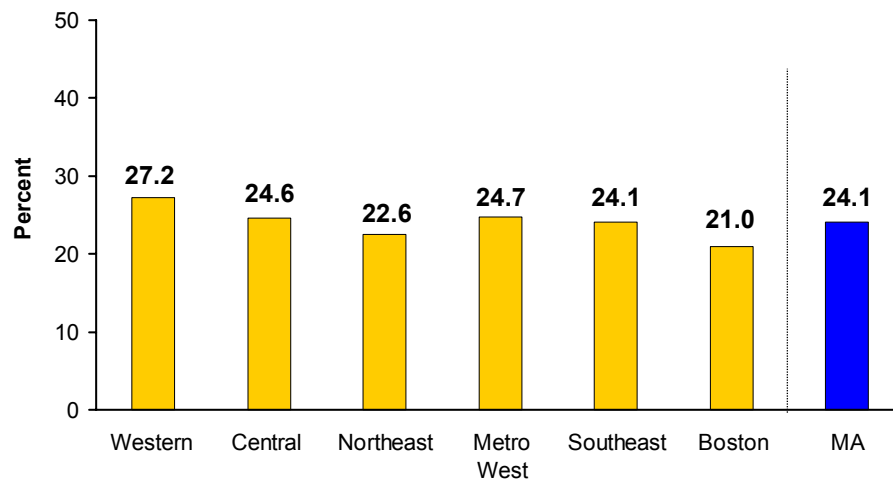
SUBSTANCE ABUSE

Alcohol Use in Past Month Persons Aged 12 to 20¹¹⁸ by EOHS Region, Massachusetts: 2002, 2003, 2004



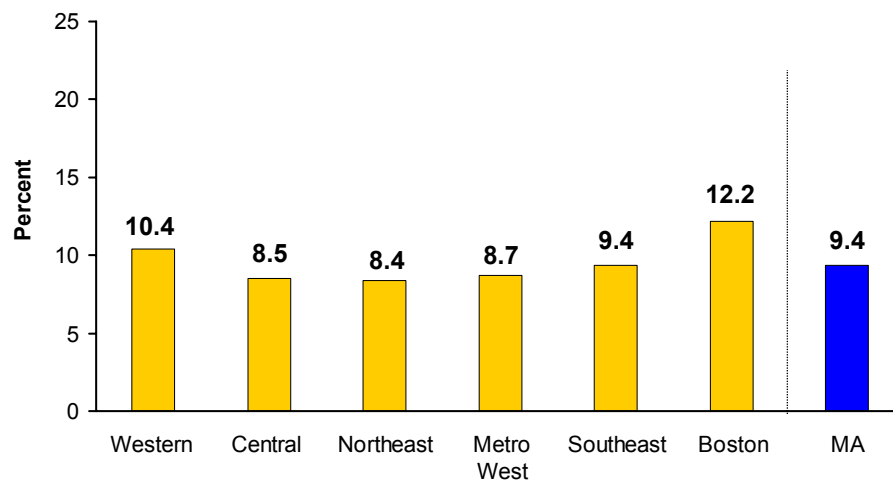
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

Binge Drinking¹ in Past Month Persons Aged 12 to 20¹¹⁹ by EOHS Region, Massachusetts: 2002, 2003, 2004



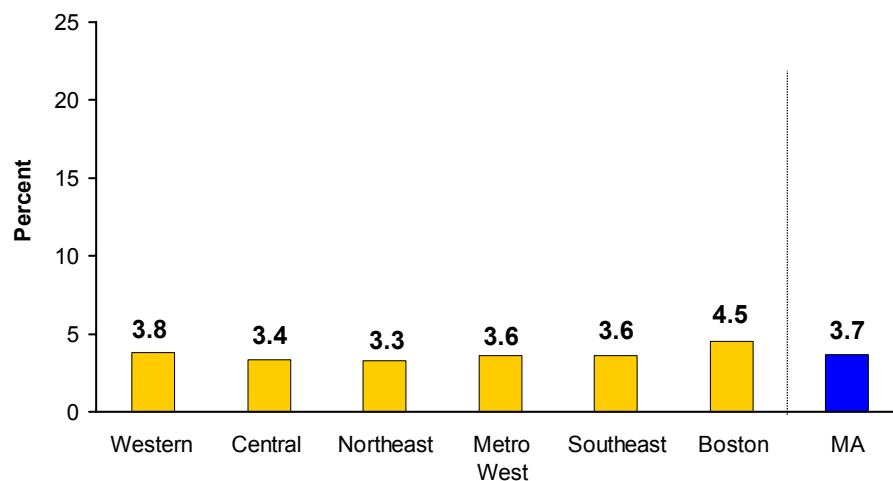
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
¹ Binge Alcohol use is defined as drinking 5+ drinks on the same occasion on at least 1 day in the past 30 days
Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

Any Illicit Drug Use in Past Month Persons Aged 12+¹²⁰ by EOHHS Region, Massachusetts: 2002, 2003, 2004



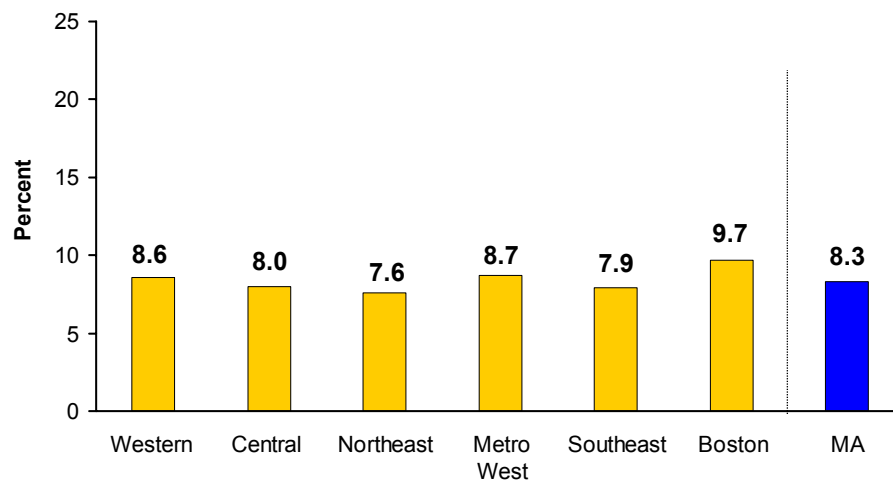
Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

Any Illicit Drug Use Other than Marijuana in Past Month Persons Aged 12+ by EOHHS Region Massachusetts: 2002, 2003, 2004¹²¹



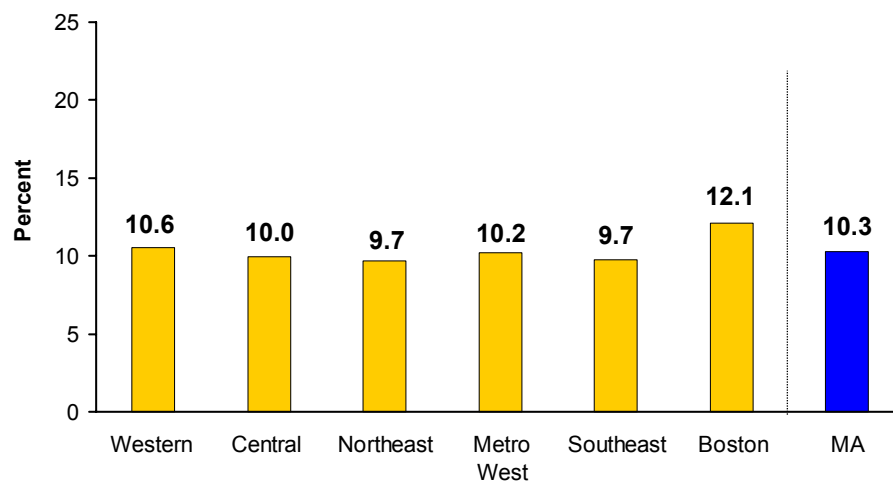
Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

Alcohol Dependence or Abuse in Past Year Persons Aged 12+ by EOHHS Region Massachusetts: 2002, 2003, 2004¹²²

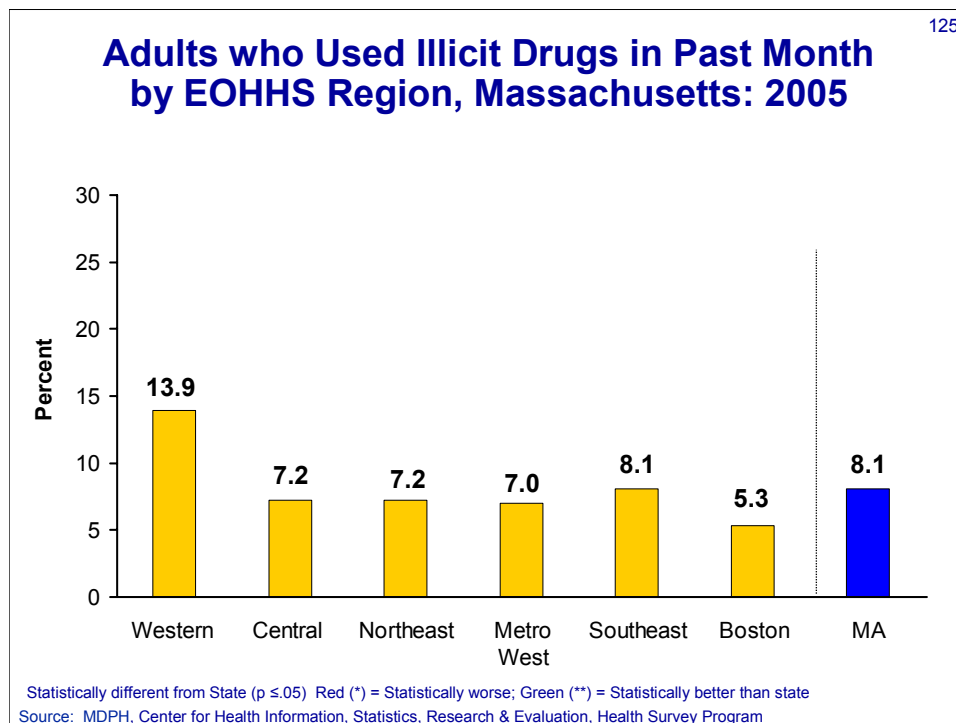
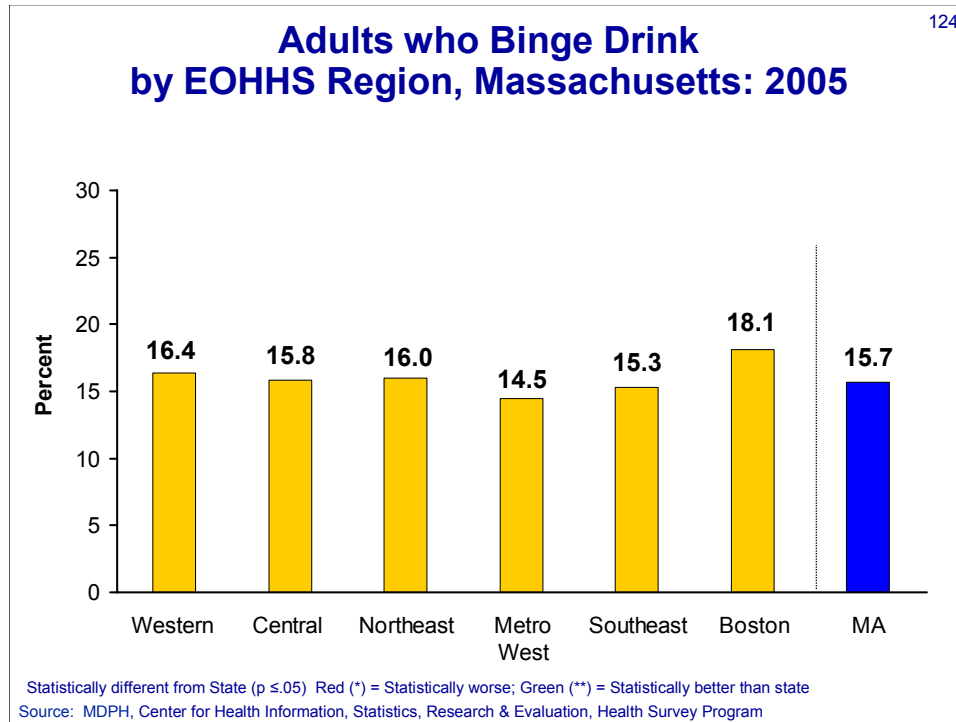


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

Dependence or Abuse of Any Illicit Drug or Alcohol in Past Year Persons Aged 12+ by EOHHS Region Massachusetts: 2002, 2003, 2004¹²³

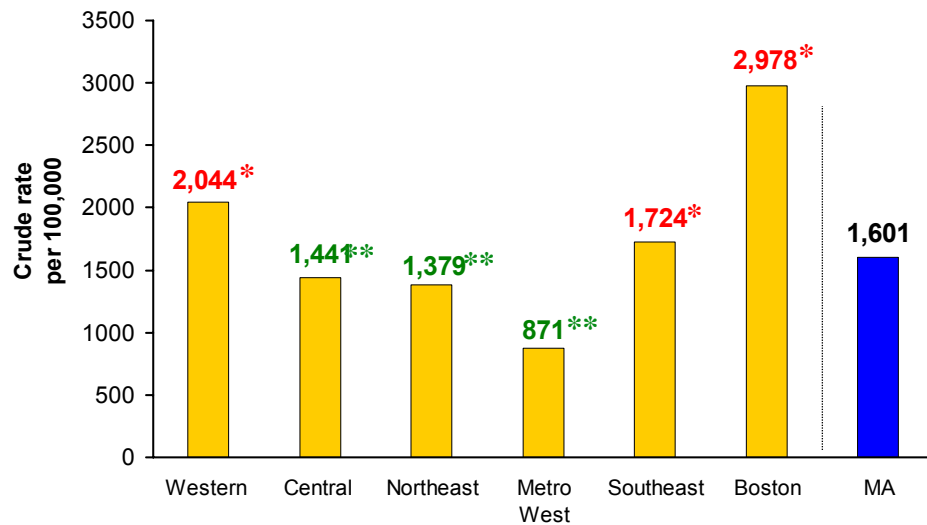


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.



Substance Abuse Treatment Program Admissions by EOHHS Region, Massachusetts: 2005

126

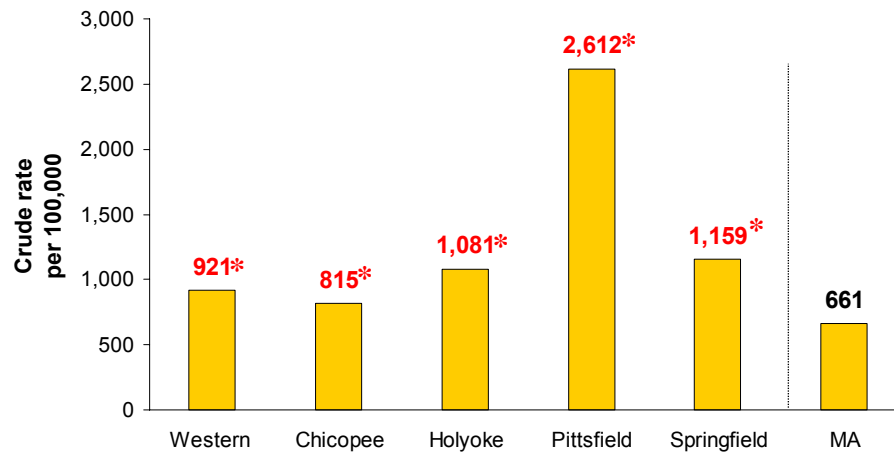


Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Substance Abuse Treatment Program Admissions- Alcohol Primary Substance Largest Cities, Western Region: 2005

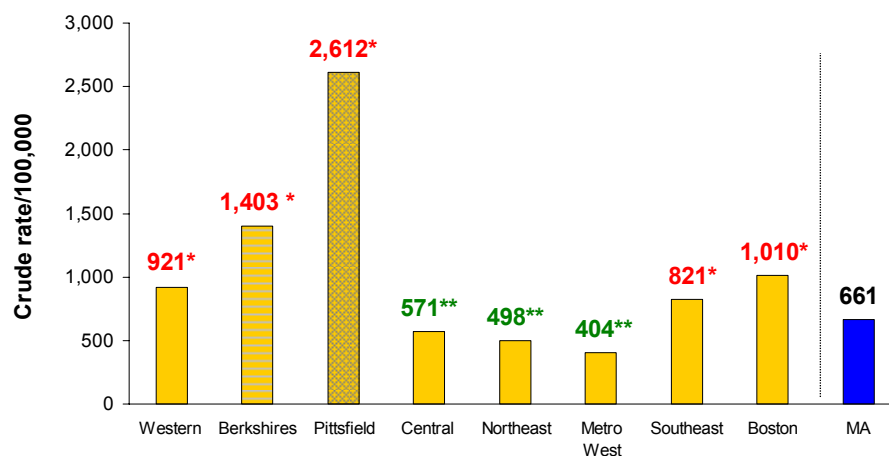
127



Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

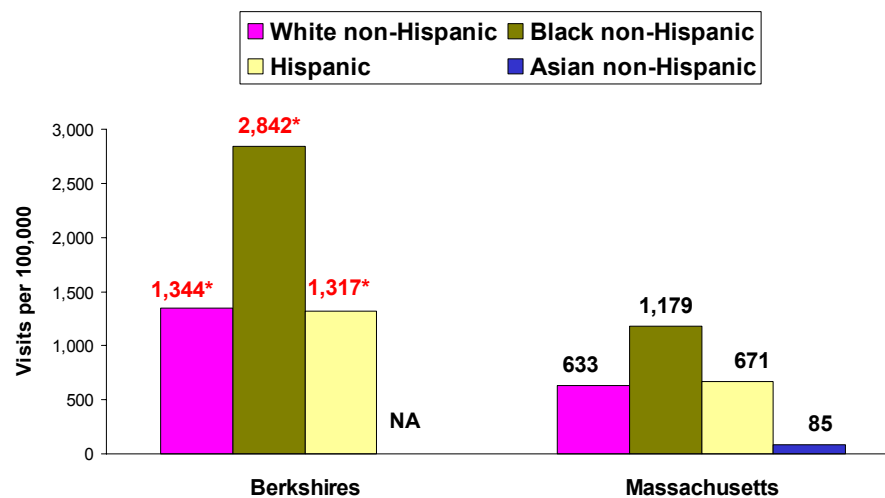
Substance Abuse Treatment Program Admissions- Alcohol Primary Substance by EOHHS Region, Massachusetts: 2005 ¹²⁸



Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

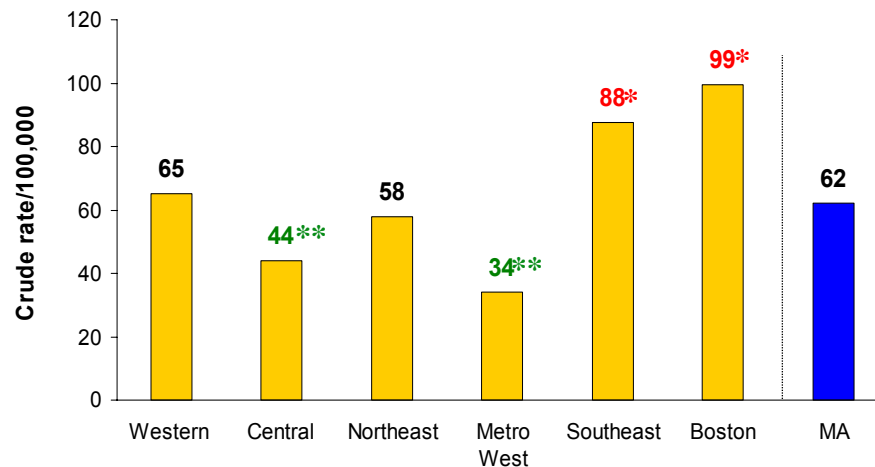
Substance Abuse Treatment Program Admissions- Alcohol Primary Substance by Race/Ethnicity Berkshires and Massachusetts: 2005 ¹²⁹



Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower than state
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

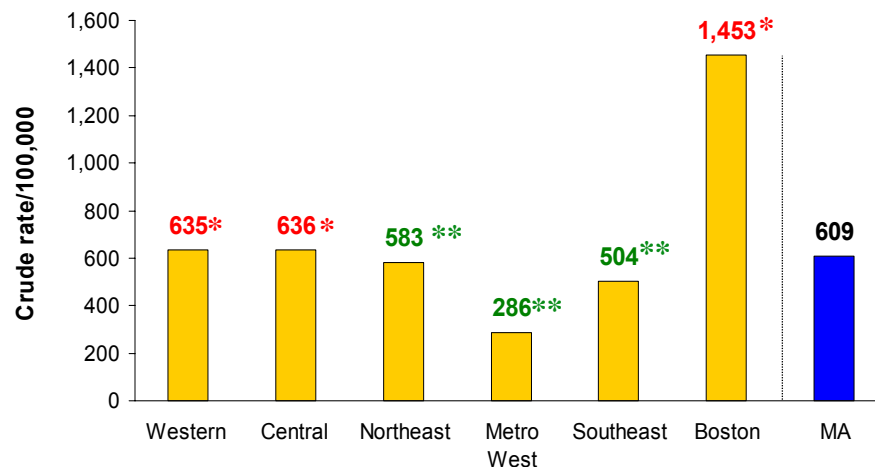
Substance Abuse Treatment Program Admissions- Cocaine Primary Substance by EOHHS Region, Massachusetts: 2005¹³⁰



Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Substance Abuse Treatment Program Admissions- Heroin Primary Substance by EOHHS Region, Massachusetts: 2005¹³¹

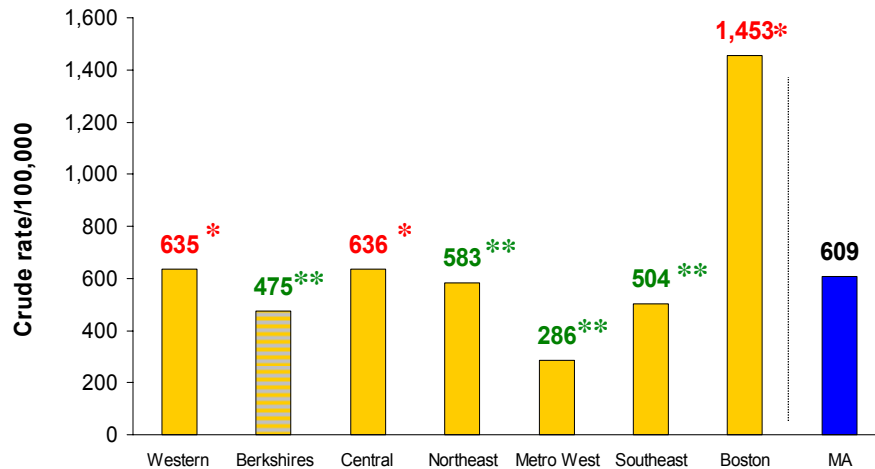


Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Substance Abuse Treatment Program Admissions- Heroin Primary Substance by EOHHS Region and Berkshires, Massachusetts: 2005

132

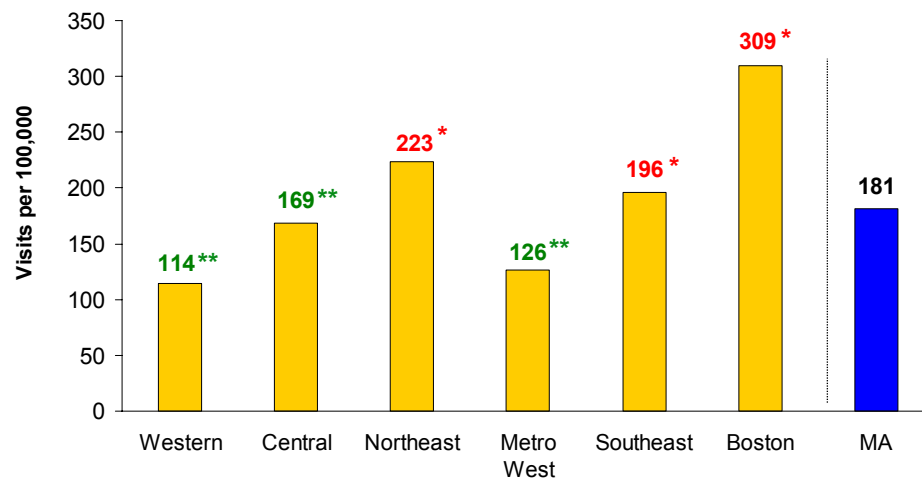


Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower than state

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Opioid-related Emergency Department Visit Rates by EOHHS Region Massachusetts: 2003-2005

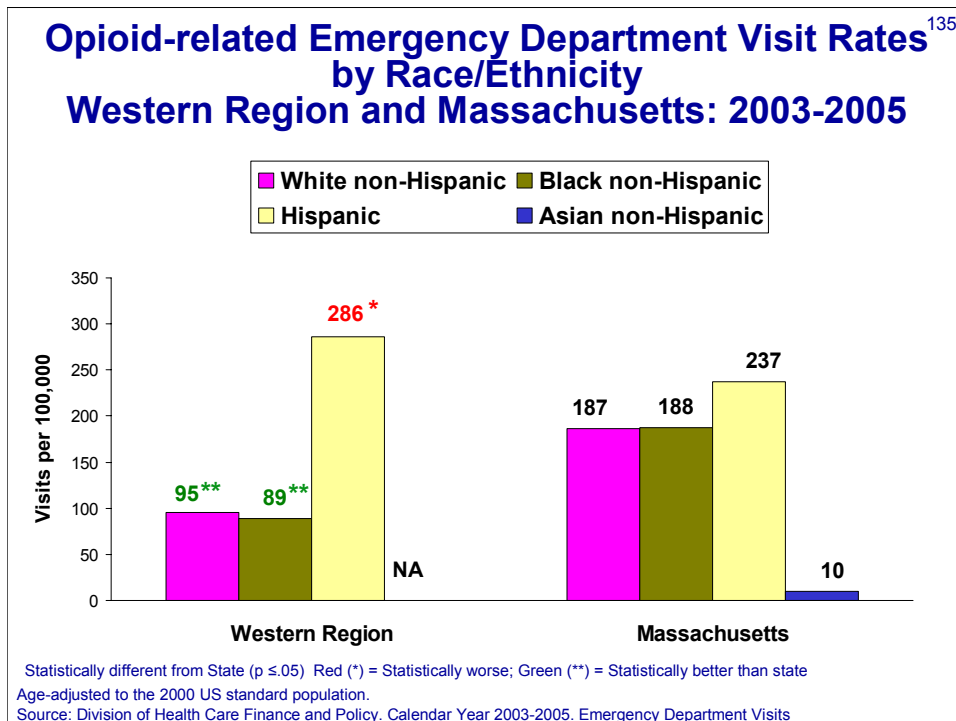
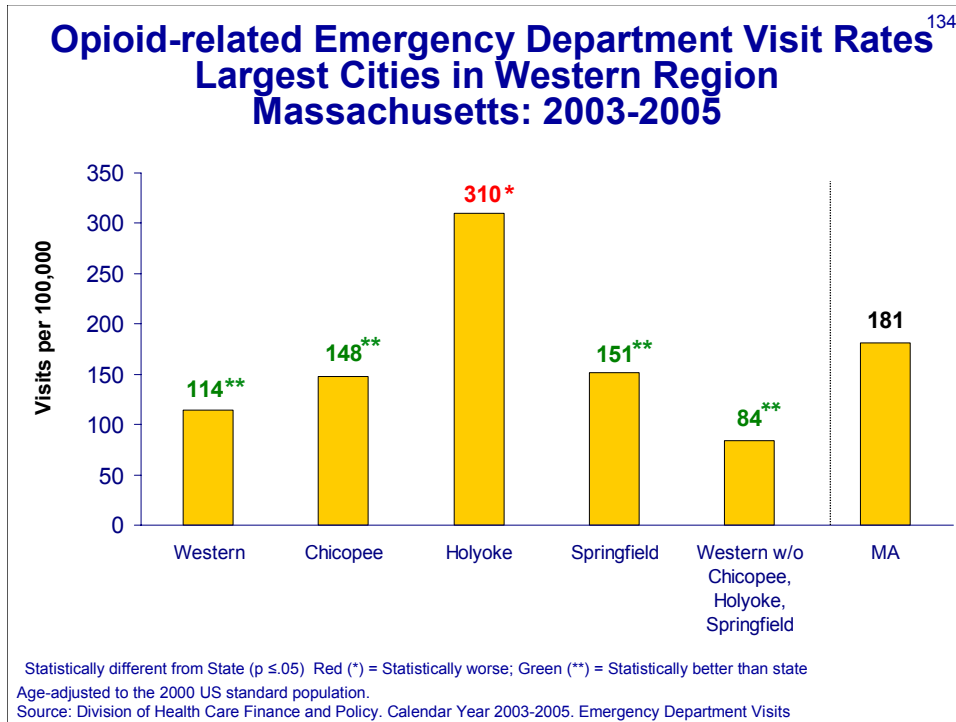
133

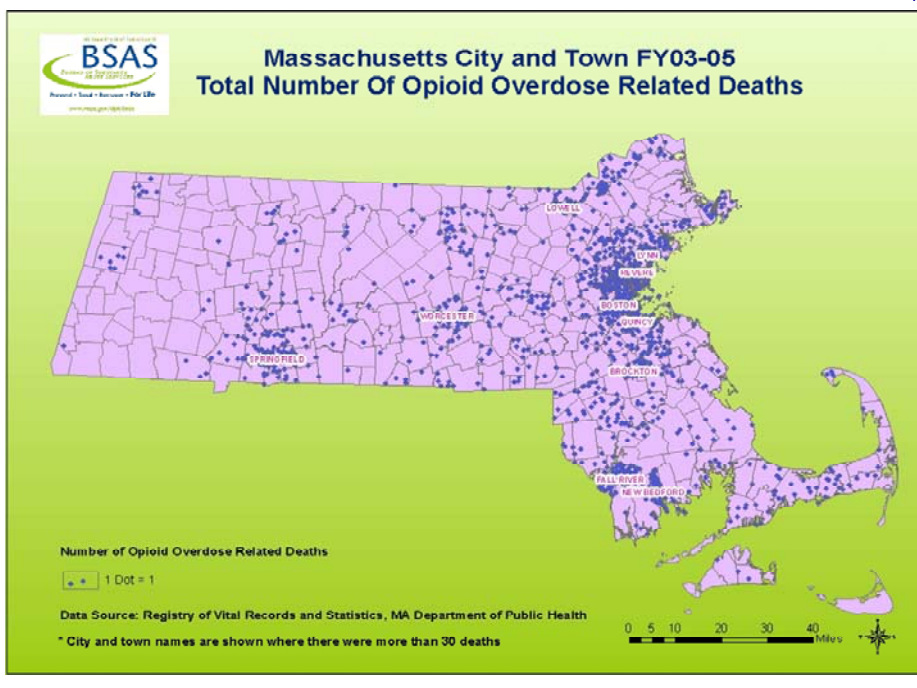
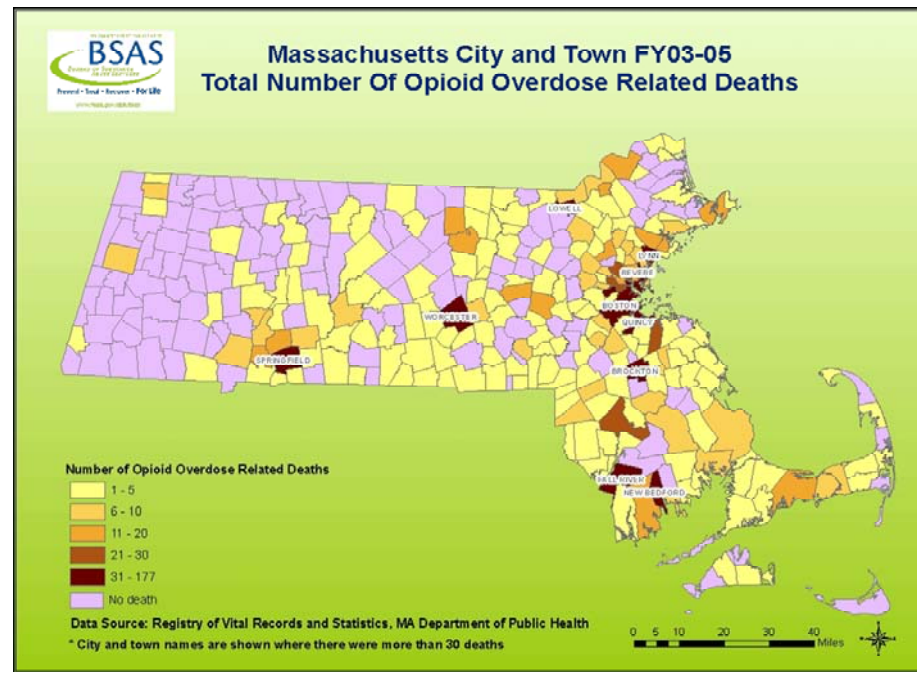


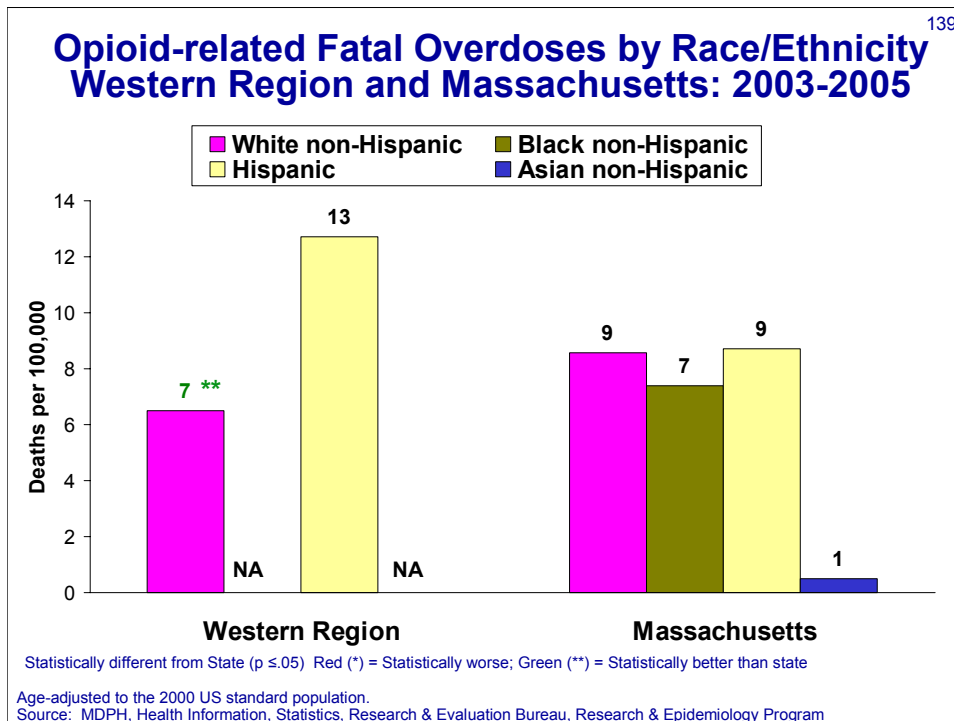
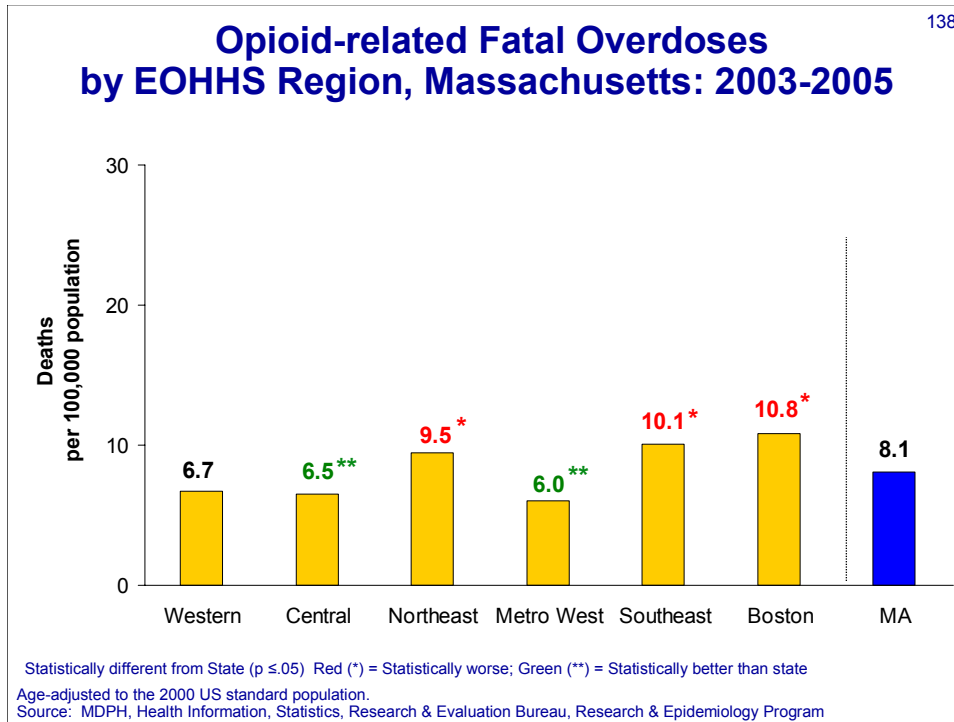
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

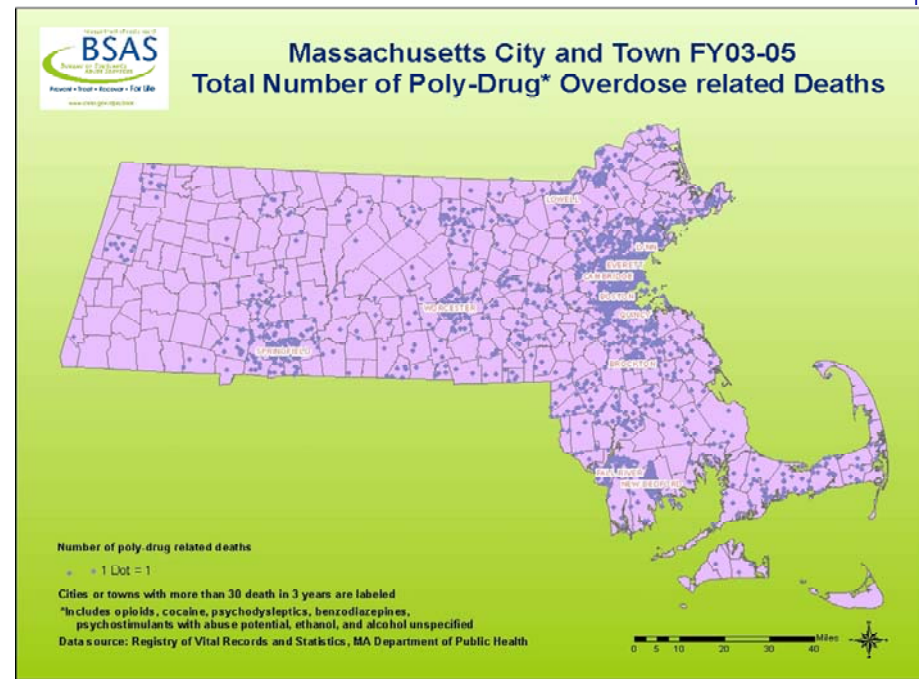
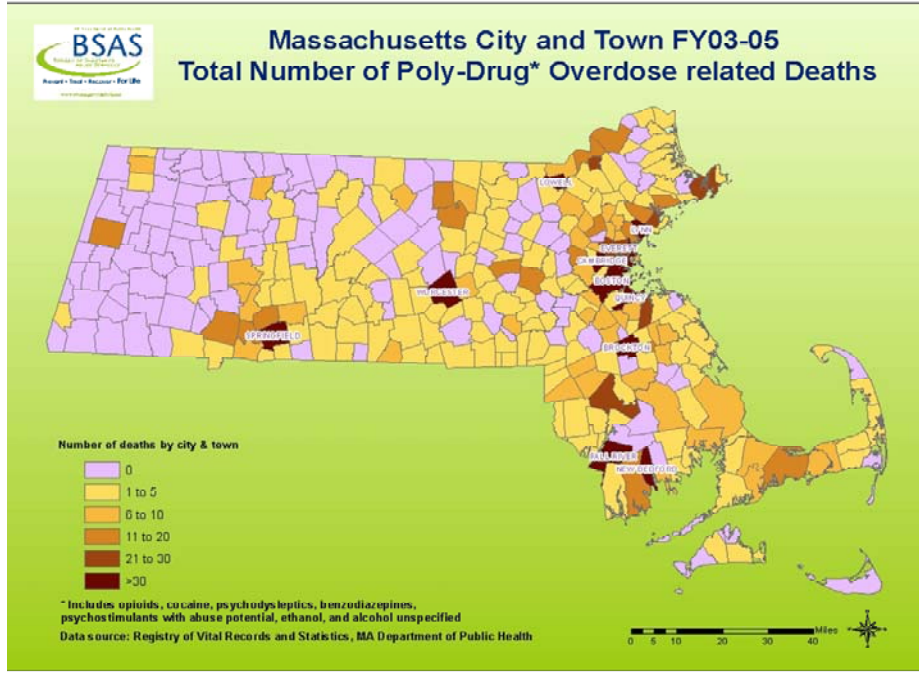
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits









Summary Substance Abuse Indicators Percentages by EOHHS Region

142

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
Past Month Alcohol 12-20 years	34.1	36.7	31.2	33.5	35.3	34.0	33.6
Past Month Binge Drinking- 12-20 years	24.1	27.2	24.6	22.6	24.7	24.1	21.0
Any Illicit Drug Use Past Month, Ages 12+	9.4	10.4	8.5	8.4	8.7	9.4	12.2
Any Illicit Drug Use Other than Marijuana Past Month, Ages 12+	3.7	3.8	3.4	3.3	3.6	3.6	4.5
Alcohol Dependence or Abuse past Year, Ages 12+	8.3	8.6	8.0	7.6	8.7	7.9	9.7
Dependence or Abuse of Alcohol or Any Illicit Drug, Ages 12+	10.3	10.6	10.0	9.7	10.2	9.7	12.1

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

Source: SAMHSA, Office of Applied Studies, National Survey on Drug Use and Health, 2002, 2003, and 2004.

Summary Substance Abuse Indicators by EOHHS Region, Massachusetts: 2005

143

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
% Adults Binge Drinking	15.7	16.4	15.8	16.0	14.5	15.3	18.1
% Adults Smoking	18.1	18.8	21.2	18.3	12.4	20.4	19.5
% Adults using illicit drugs	8.1	13.9	7.2	7.2	7.0	8.1	5.3
Substance Abuse Treatment Program Admissions Rate	1,601	2,044	1,441	1,379	871	1,724	2,978
Substance Abuse Treatment Program Admissions Rate-- Alcohol	661	921	571	498	404	821	1,010
Substance Abuse Treatment Program Admissions Rate-- Cocaine	62	65	44	58	34	88	99
Substance Abuse Treatment Program Admissions Rate-- Heroin	609	635	636	583	286	504	1,453

■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

Summary Substance Abuse Indicators Communities in Western Region: 2005

Indicator (crude rates, per 100,000)	MA Total	Western	Chicopee	Holyoke	Springfield
Substance Abuse Treatment Program Admissions Rate	1,601	2,044	1,807.7	3,353.7	3,153.0
Substance Abuse Treatment Program Admissions Rate-- Alcohol	661	921	815.0	1,080.6	1,158.9
Substance Abuse Treatment Program Admissions Rate— Cocaine	62	65	54.9	138.7	95.9
Substance Abuse Treatment Program Admissions Rate— Heroin	609	635	646.5	1,618.4	1,359.7

 Lower Outcome (significantly different from state)  Higher Outcome (significantly different from state)

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Summary Substance Abuse Indicators Western Region, Massachusetts: 2005

Indicator	MA Total	Western	Pittsfield	Berkshires
Substance Abuse Treatment Program Admissions Rate	1,601	2,044	5,592.8	2,894.0
Substance Abuse Treatment Program Admissions Rate-- Alcohol	661	921	2,612.1	1,402.6
Substance Abuse Treatment Program Admissions Rate— Cocaine	62	65	166.1	82.6
Substance Abuse Treatment Program Admissions Rate— Heroin	609	635	880.6	475.1

 Lower Outcome (significantly different from state)  Higher Outcome (significantly different from state)

Source: Massachusetts Department of Public Health. BSAS Substance Abuse Treatment Programs 2005.

Summary Opioid Indicators by EOHHS Region Massachusetts: 2003-2005

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
Opioid-related Emergency Department Visit Rate	181	114	169	223	126	196	309
Opioid-related fatal overdose rate	8.1	6.7	6.5	9.5	6.0	10.1	10.8

 Better Outcome (significantly different from state)
  Worse Outcome (significantly different from state)

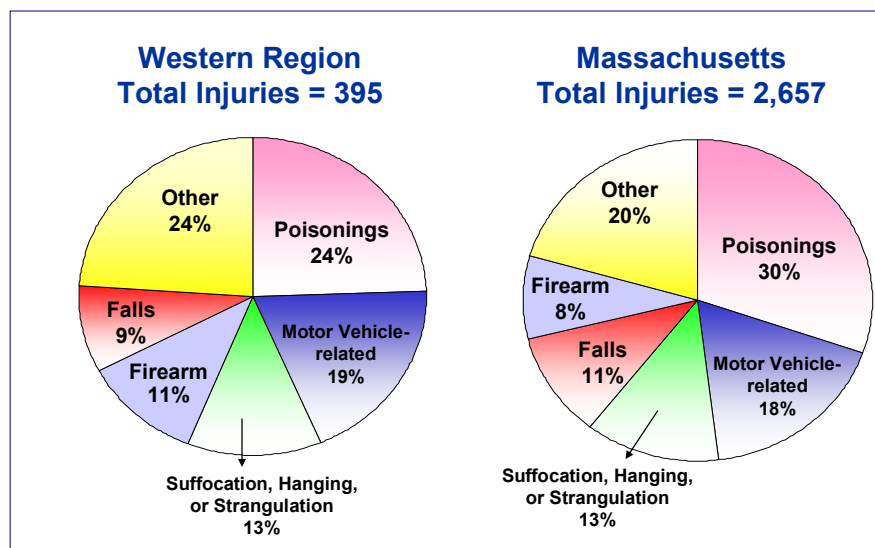
Summary Opioid Indicators Communities in Western Region: 2003-2005

Indicator	MA Total	Western	Chicopee	Holyoke	Pittsfield	Springfield
Opioid-related Emergency Department Visit Rate	181	114	153	332	122	157
Opioid-related fatal overdose rate	8.1	6.7	8.7	5.1	5.4	9.3

 Better Outcome (significantly different from state)
  Worse Outcome (significantly different from state)

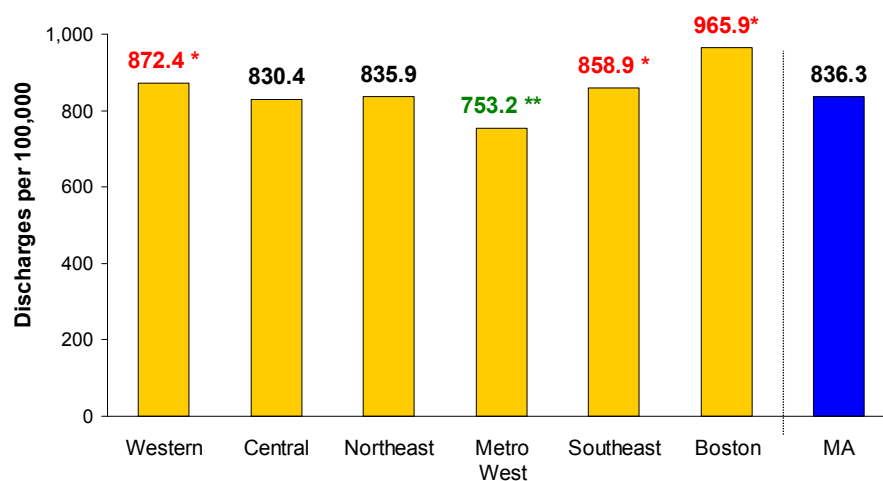
INJURY, VIOLENCE, & OCCUPATIONAL HEALTH

Causes of Injury Deaths Western Region and Massachusetts: 2005



Source: Massachusetts Department of Public Health, Center for Health Information, Statistics, Research, and Evaluation

Injury-Related Hospital Discharge Rates by EOHHS Region, Massachusetts: 2003-2005

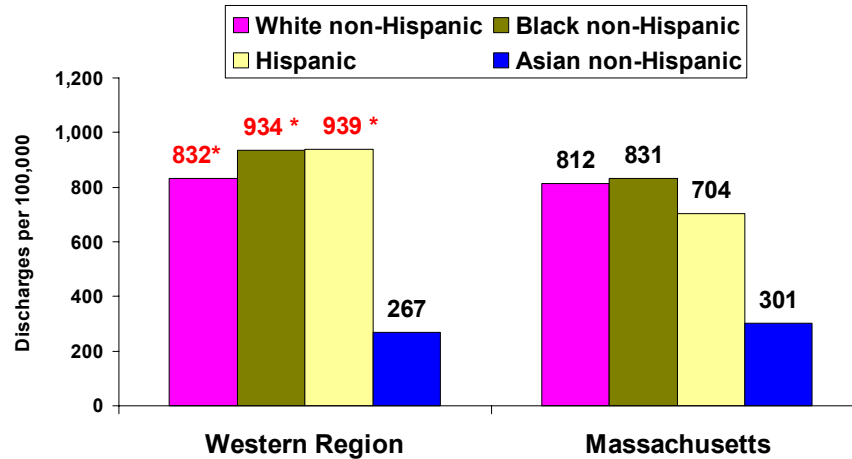


Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Injury-Related Hospital Discharge Rates by Race/Ethnicity, Western Region and Massachusetts: 2003-2005

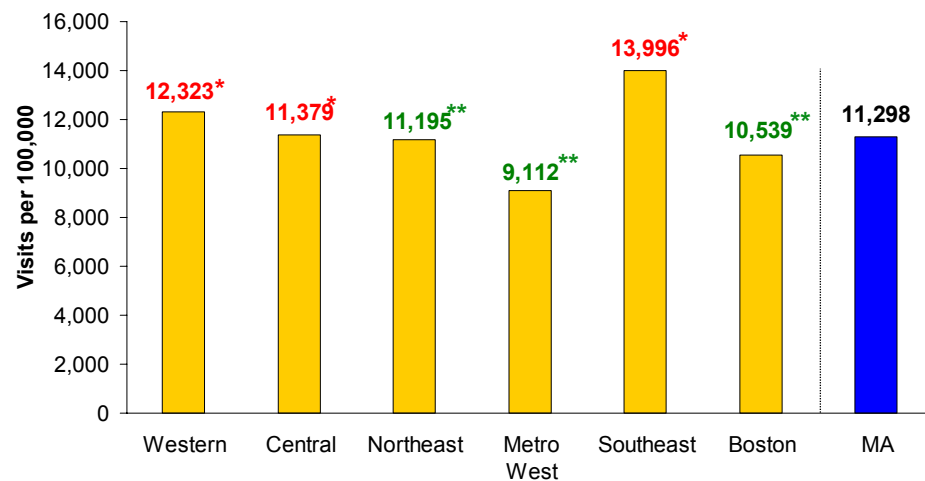
150



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Emergency Department Visit Rates for Injuries & Poisonings by EOHHS Region Massachusetts: 2003-2005

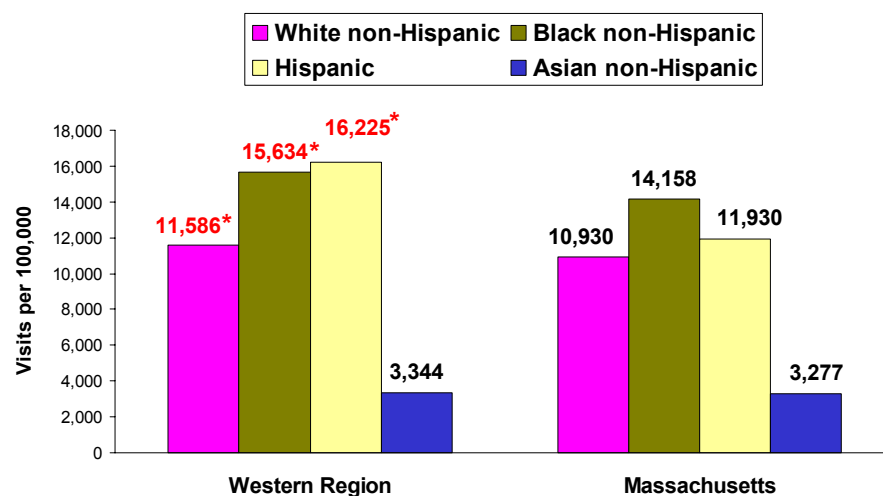
151



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Emergency Department Visit Rates for Injuries & Poisonings by Race/Ethnicity Western Region and Massachusetts: 2003-2005

152

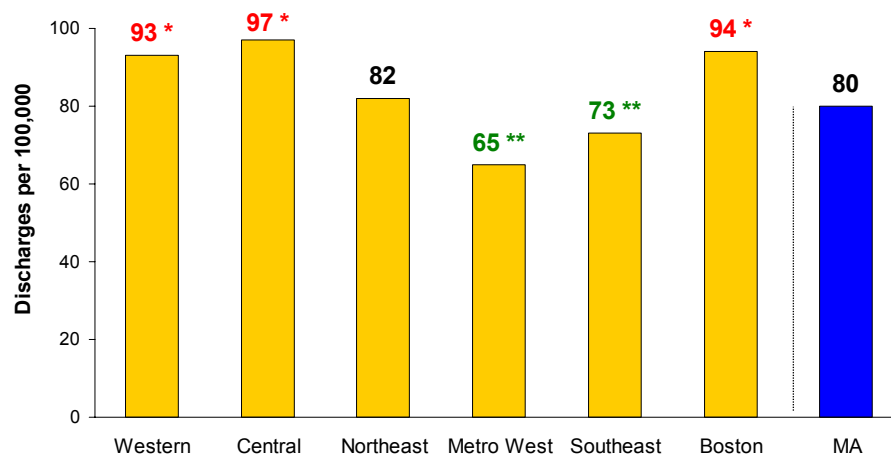


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Hospital Discharge Rates for Traumatic Brain Injuries by EOHHS Region Massachusetts: 2003-2005

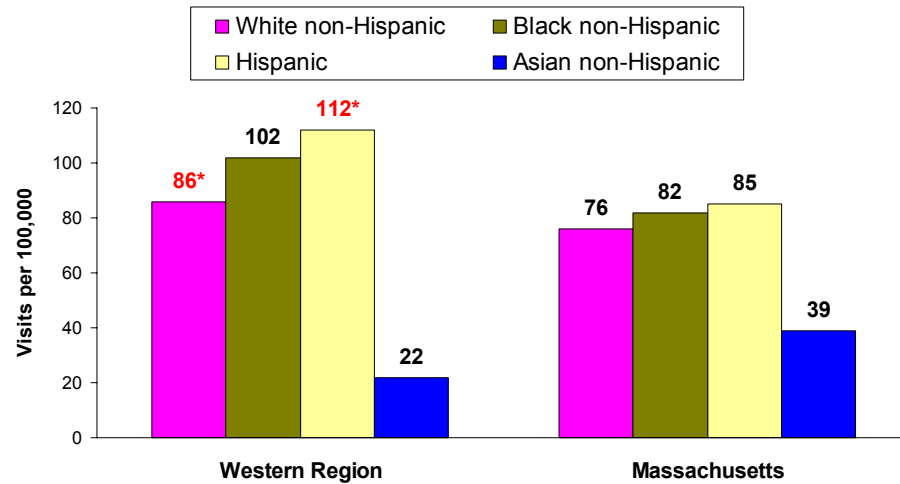
153



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Hospital Discharge Rates for Traumatic Brain Injury by Race/Ethnicity, Western Region and Massachusetts: 2003-2005 154

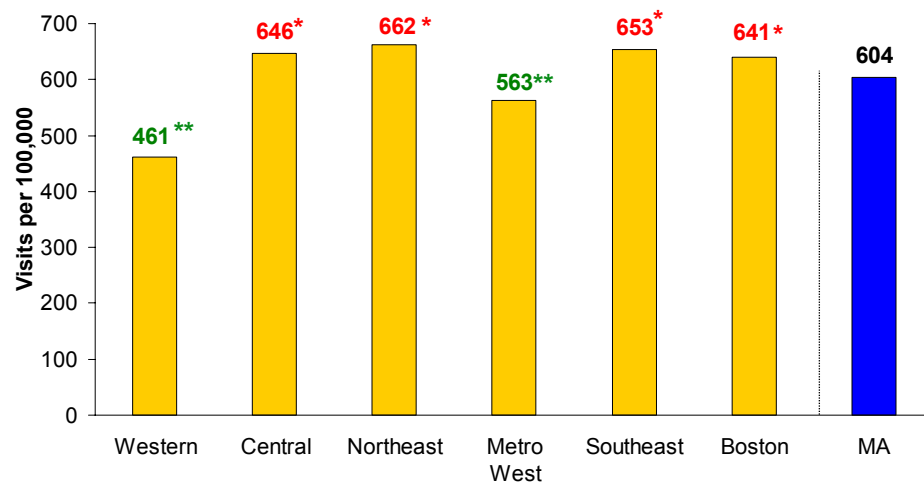


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Emergency Department Visit Rates for Traumatic Brain Injury by EOHHS Region Massachusetts: 2003-2005 155



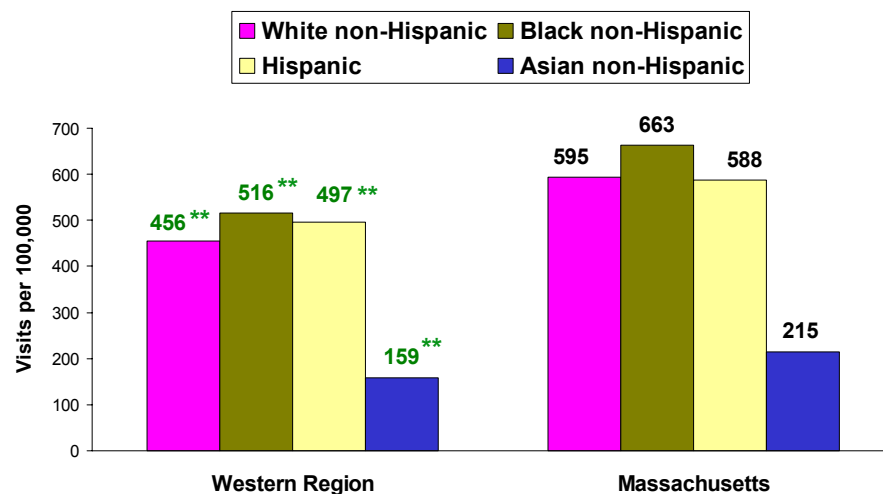
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Emergency Department Visit Rates for Traumatic Brain Injury by Race/Ethnicity Western Region and Massachusetts: 2003-2005

156



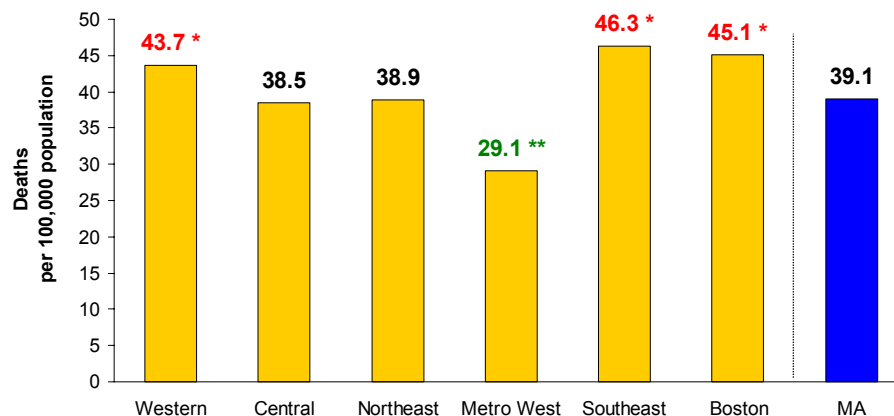
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Injury Death Rates by EOHHS Region Massachusetts: 2003-2005

157

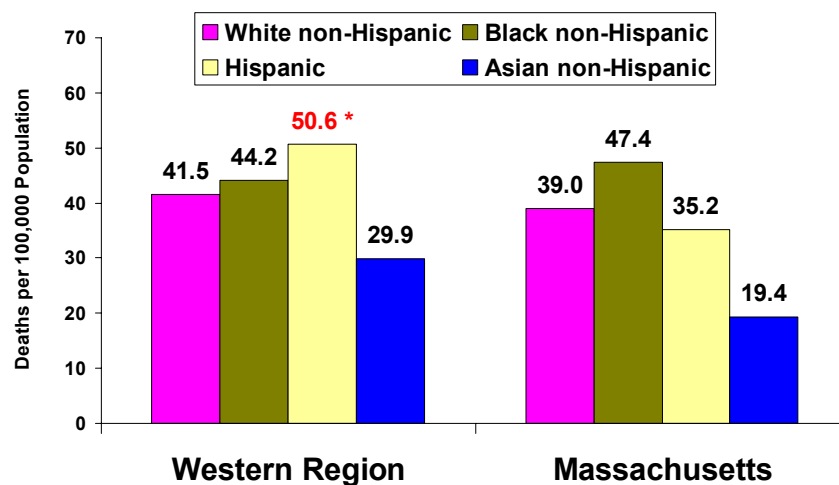


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Injury Death Rates by Race/Ethnicity Western Region and Massachusetts: 2003-2005

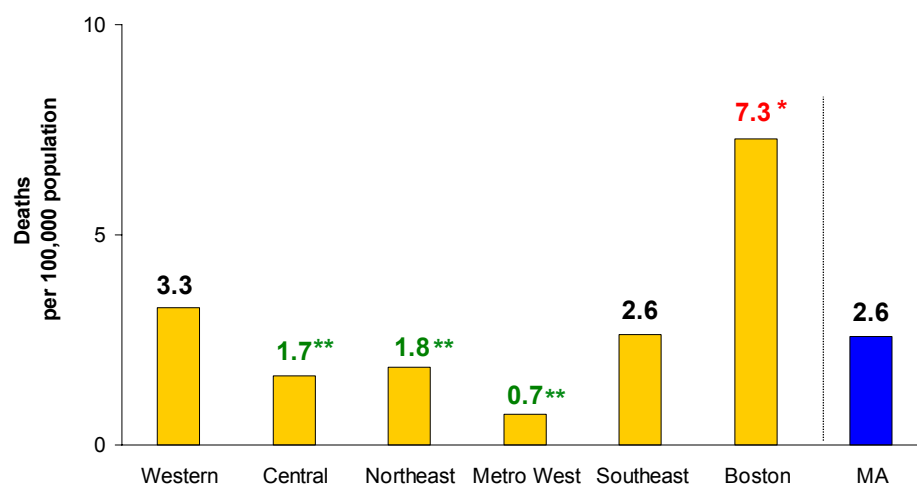


Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Homicides by EOHHS Region Massachusetts: 2003-2005



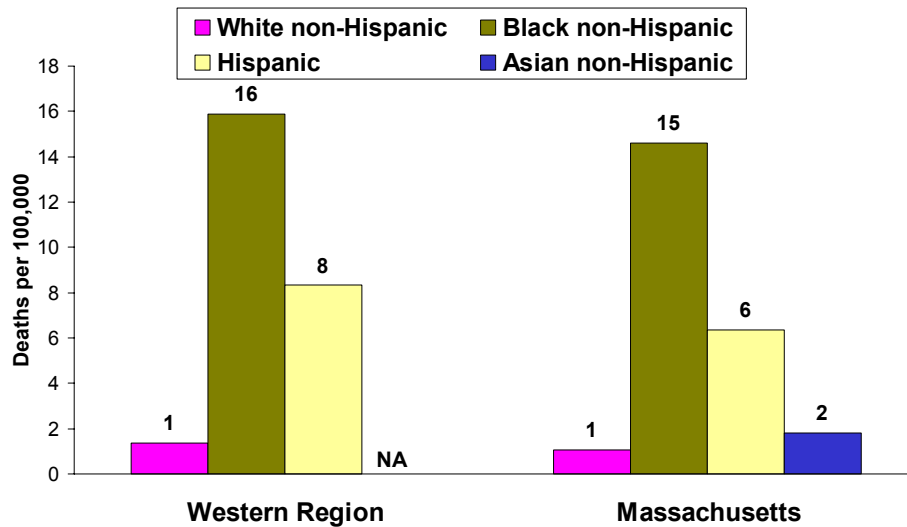
Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Homicide Rates by Race/Ethnicity Western Region and Massachusetts: 2003-2005

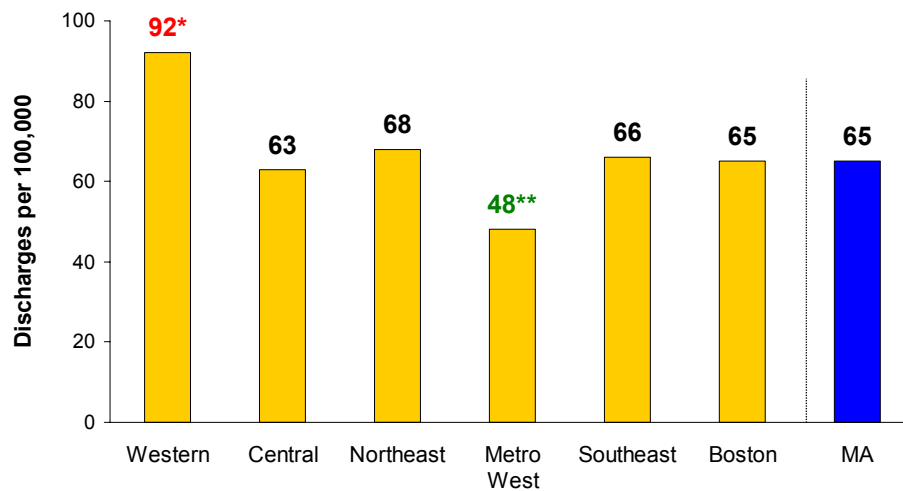
160



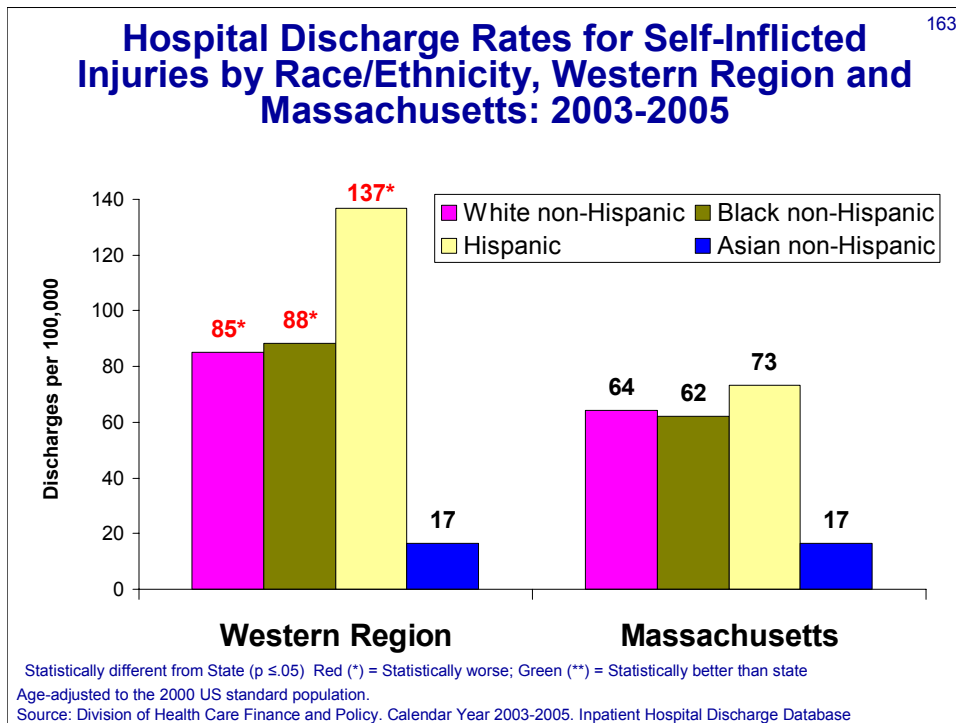
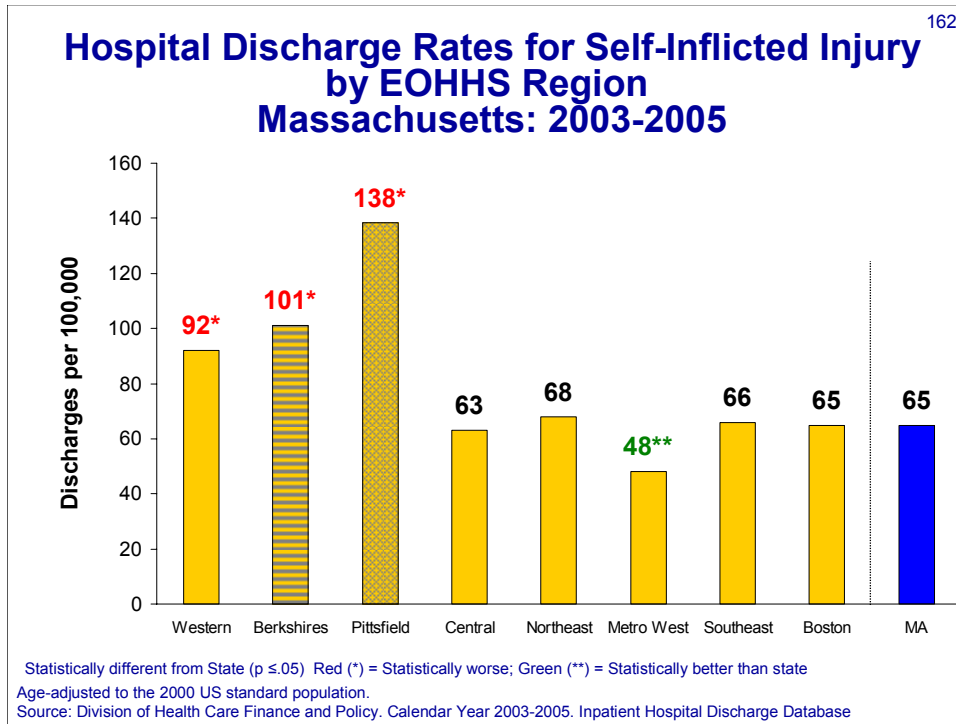
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

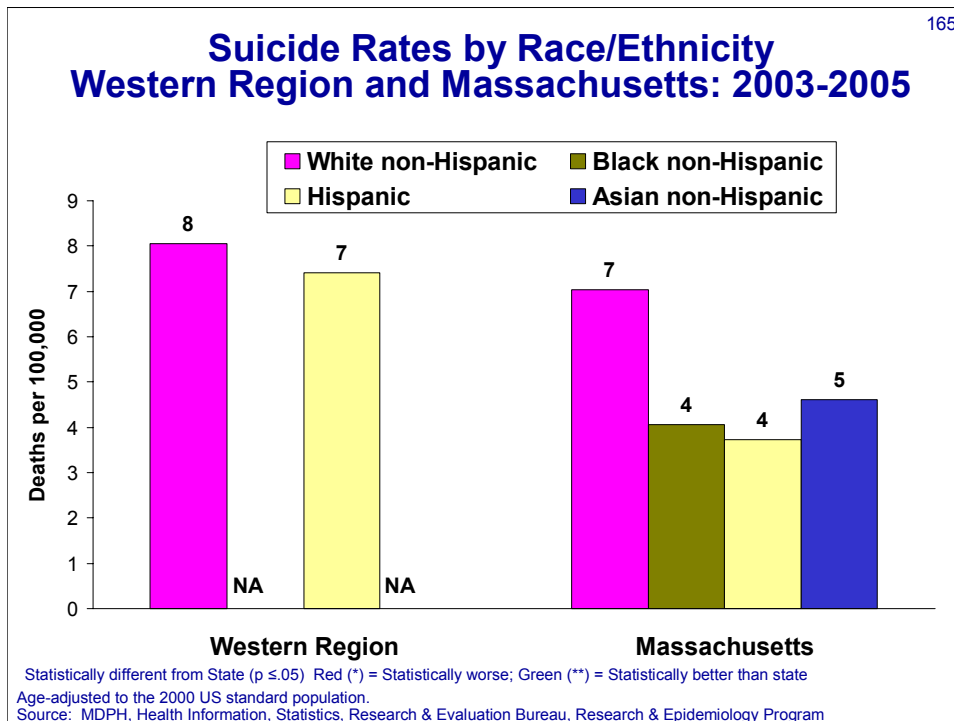
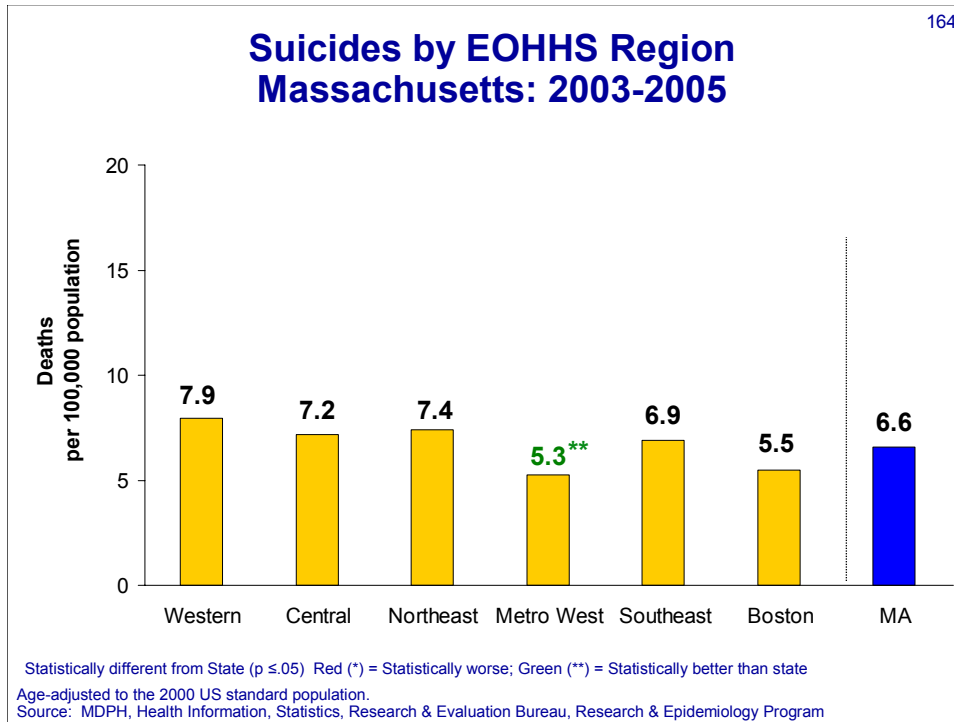
Hospital Discharge Rates for Self-Inflicted Injury by EOHHS Region Massachusetts: 2003-2005

161



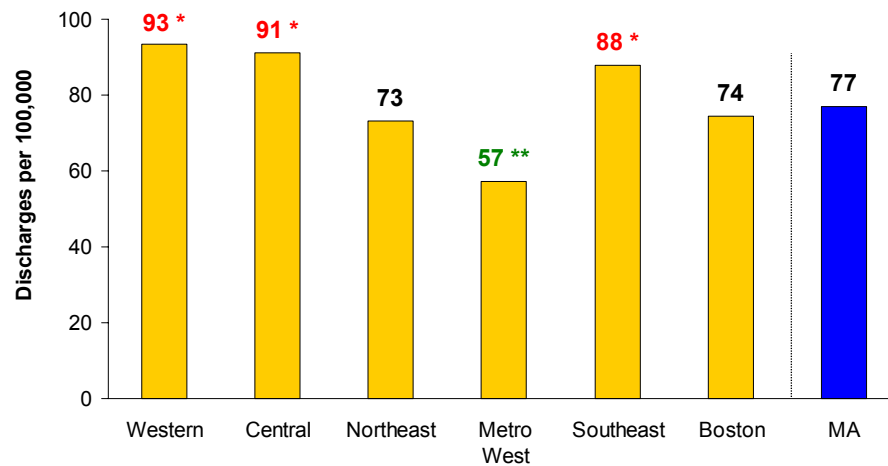
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database





Hospital Discharge Rates for Motor Vehicle-related Injuries by EOHHS Region Massachusetts: 2003-2005

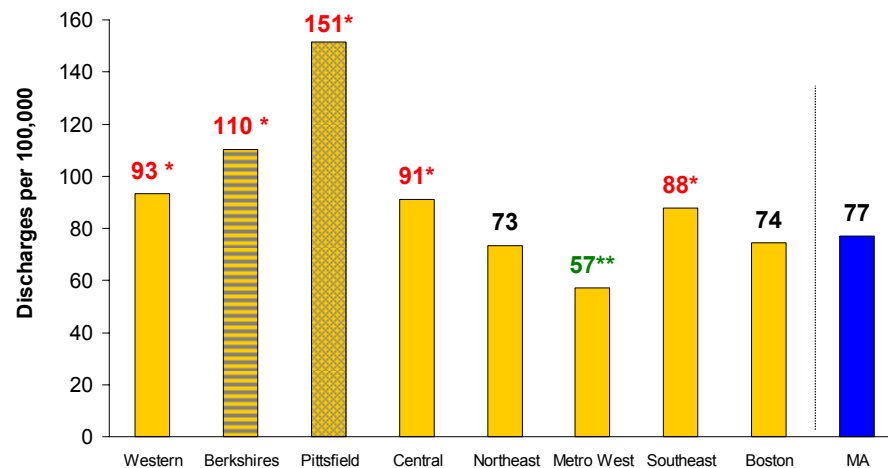
166



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Hospital Discharge Rates for Motor Vehicle-Related Injuries by EOHHS Region, Berkshires, and Pittsfield Massachusetts: 2003-2005

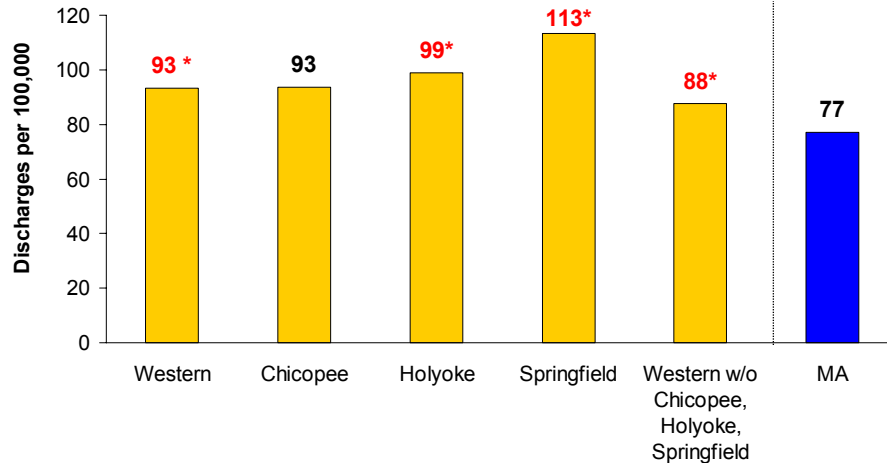
167



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Hospital Discharge Rates for Motor Vehicle-related Injuries, Largest Cities in Western Region Massachusetts: 2003-2005

168

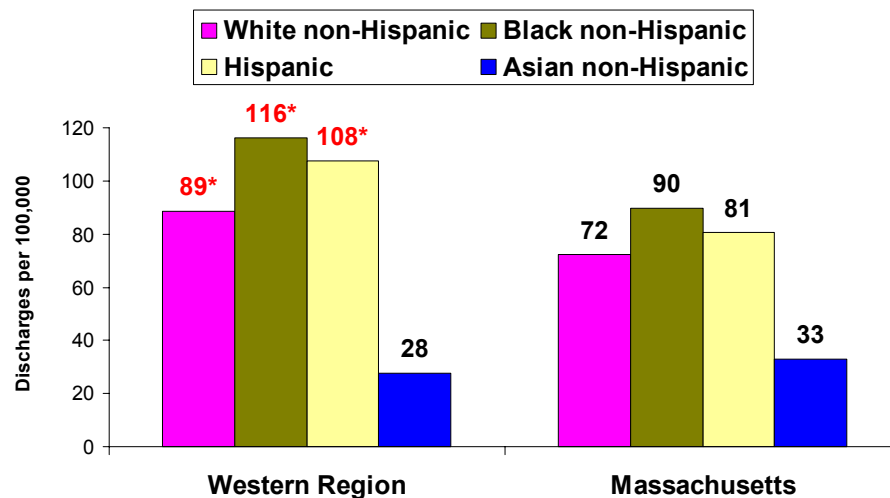


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

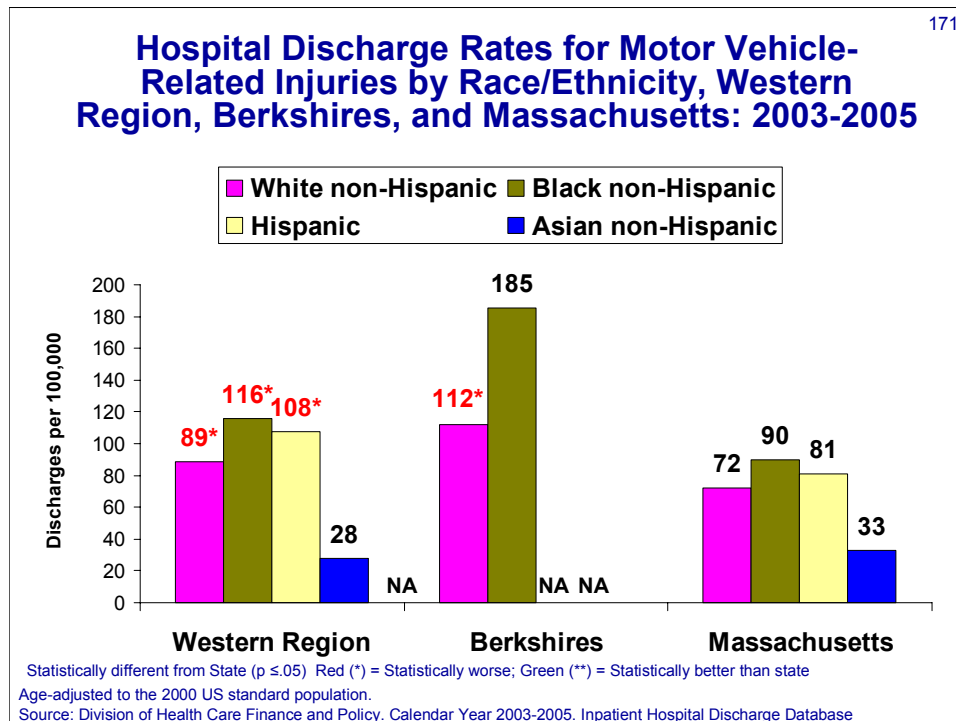
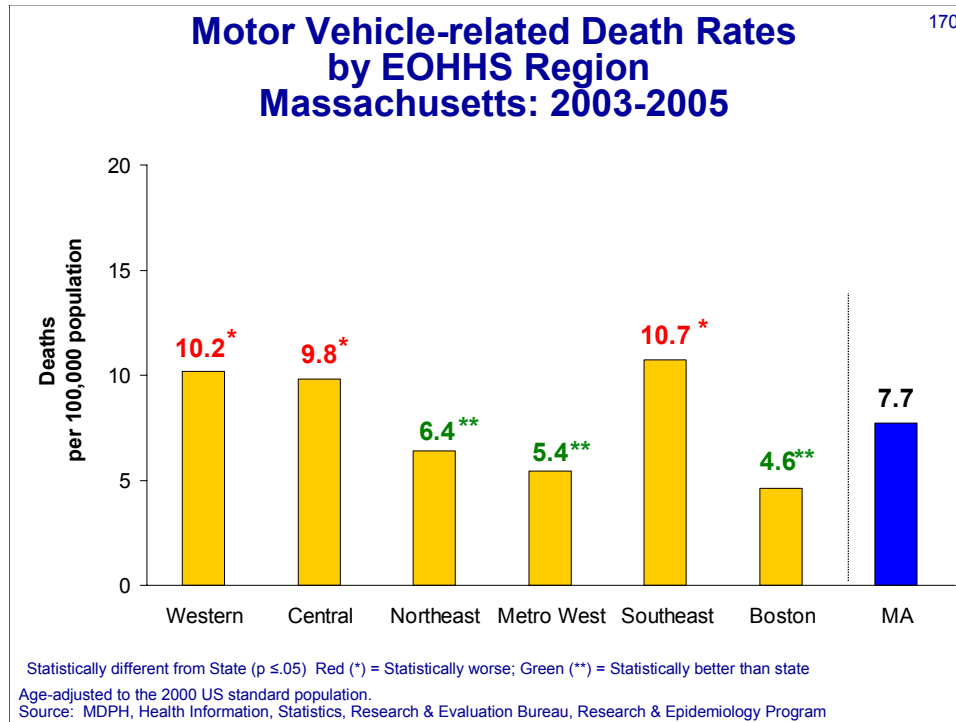
Hospital Discharge Rates for Motor Vehicle-related Injuries by Race/Ethnicity, Western Region and Massachusetts: 2003-2005

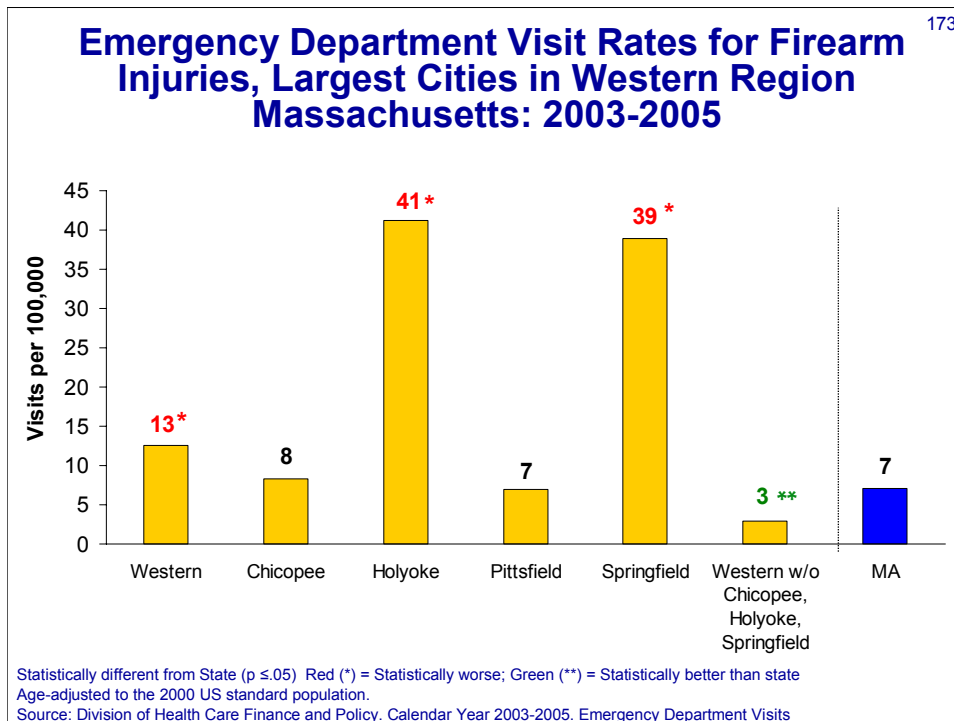
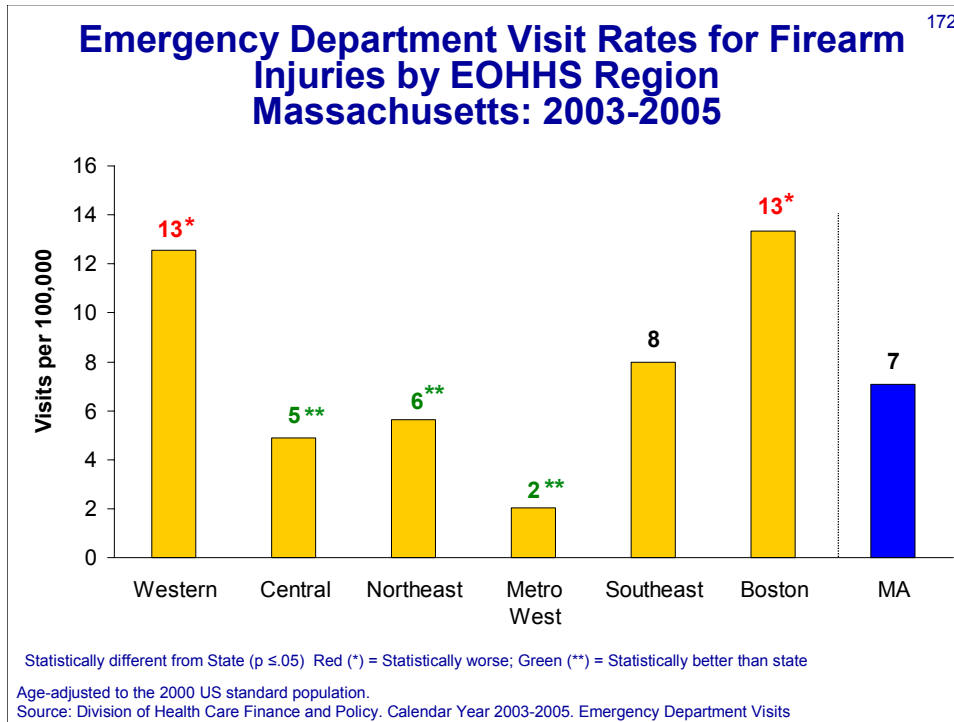
169



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.

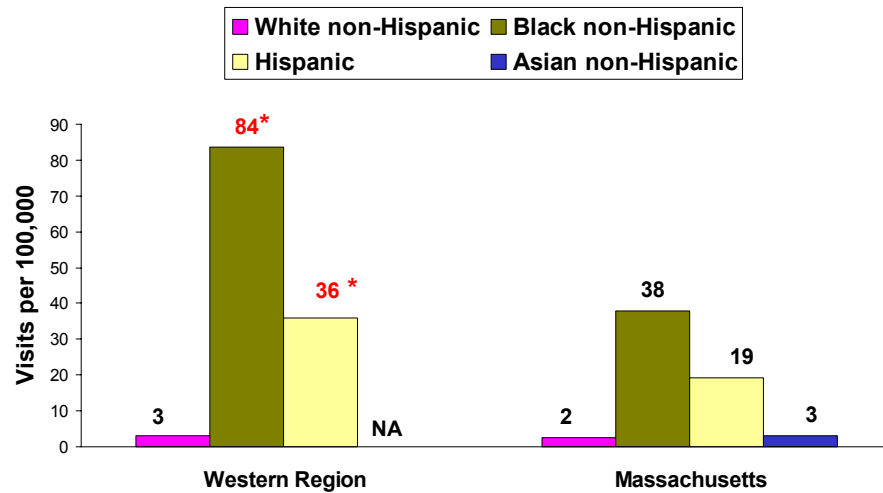
Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database





Emergency Department Visit Rates for Firearm Injuries by Race/Ethnicity Western Region and Massachusetts: 2003-2005

174



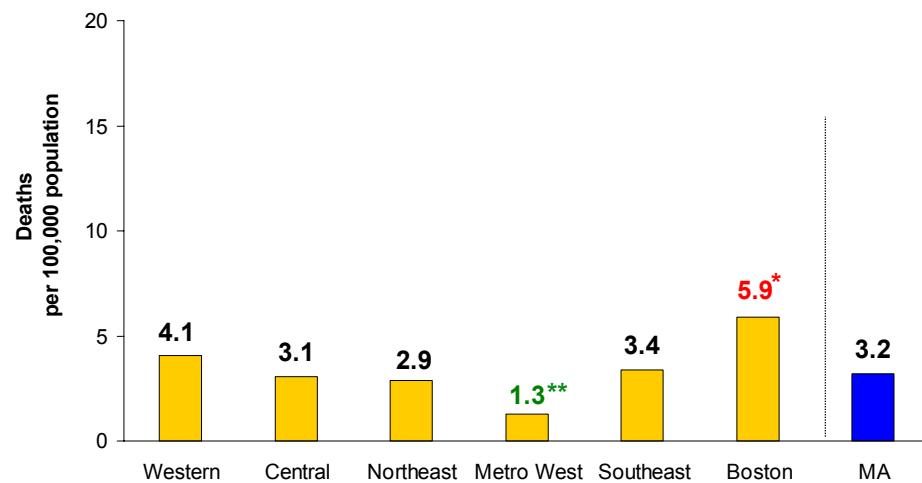
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Firearm Death Rates by EOHHS Region Massachusetts: 2003-2005

175



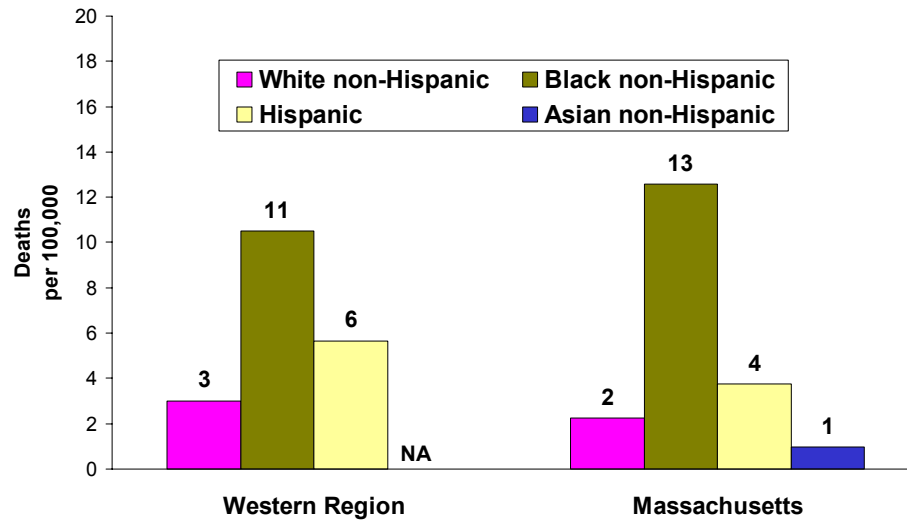
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Firearm Death Rates by Race/Ethnicity Western Region and Massachusetts: 2003-2005

176



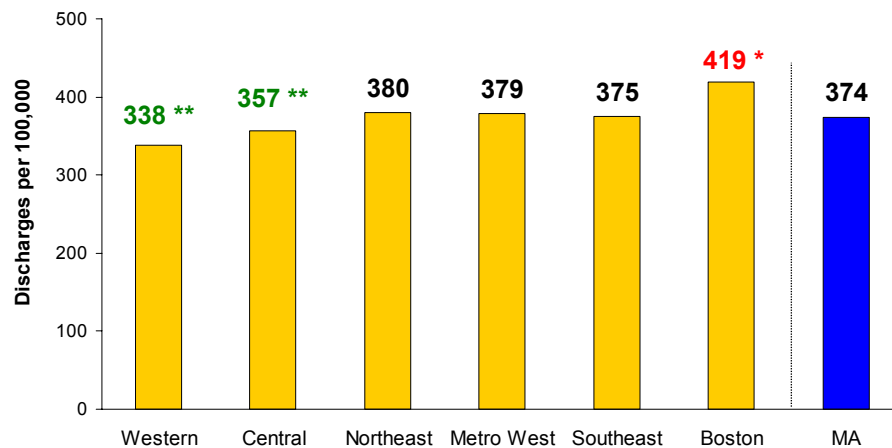
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Hospital Discharge Rates for Fall-related Injuries by EOHHS Region Massachusetts: 2003-2005

177



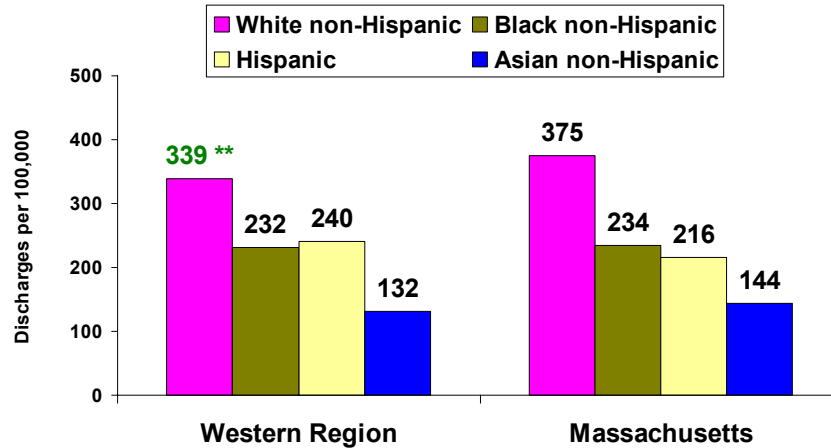
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Hospital Discharge Rates for Fall-related Injuries by Race/Ethnicity, Western Region and Massachusetts: 2003-2005

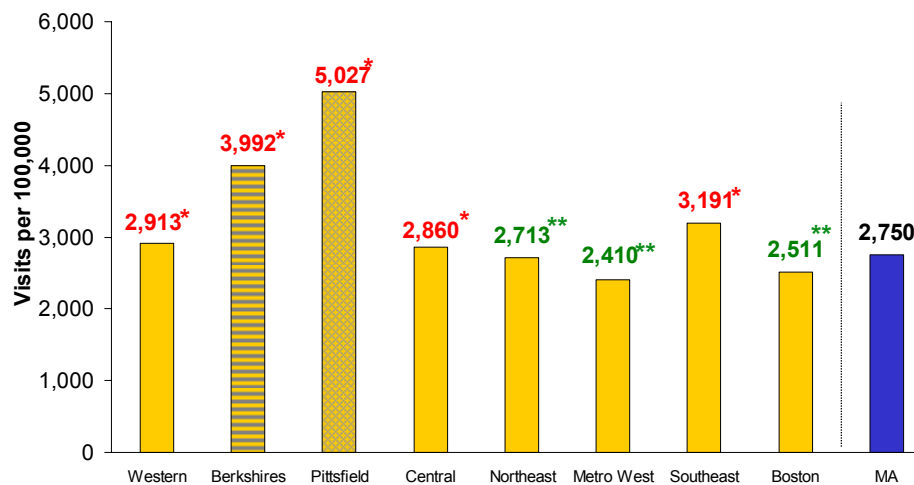
178



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Emergency Department Visit Rates for Fall-Related Injuries by EOHHS Region Massachusetts: 2003-2005

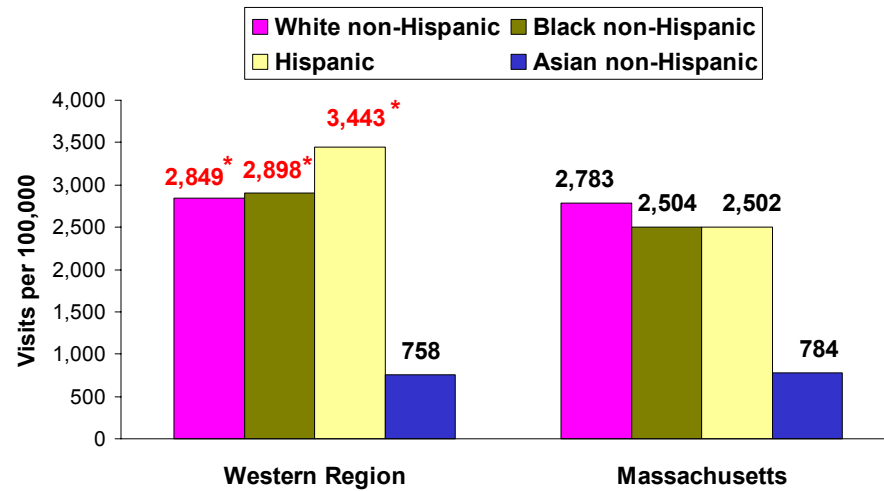
179



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
 Age-adjusted to the 2000 US standard population.
 Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Emergency Department Visit Rates for Fall-related Injuries by Race/Ethnicity Western Region and Massachusetts: 2003-2005

180



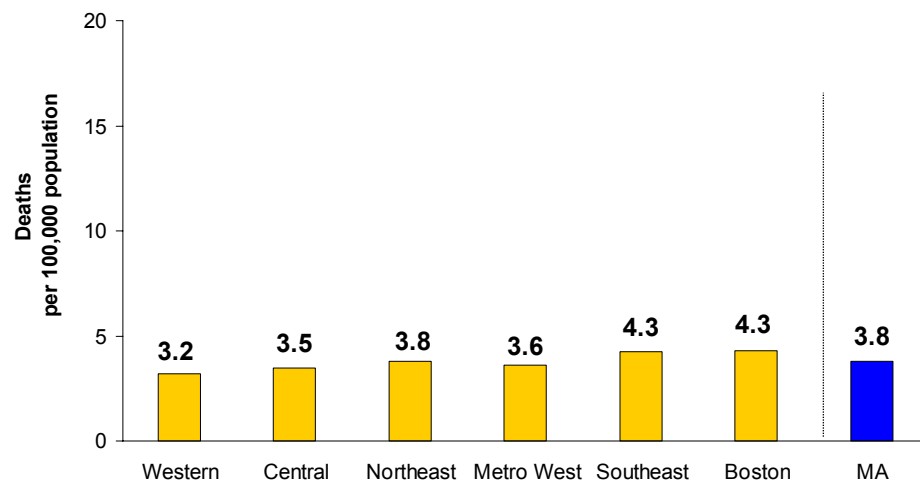
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Fall-related Injury Death Rates by EOHHS Region Massachusetts: 2003-2005

181



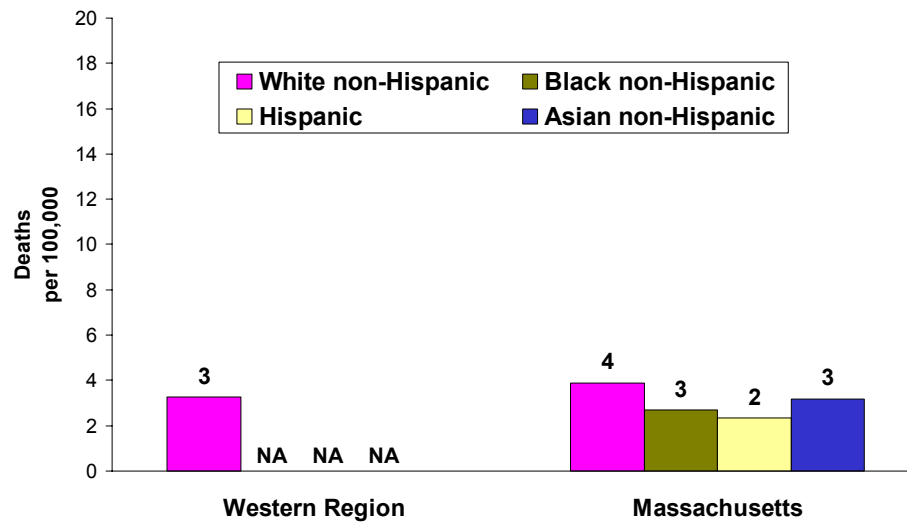
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Fall-related Injury Death Rates by Race/Ethnicity Western Region and Massachusetts: 2003-2005

182



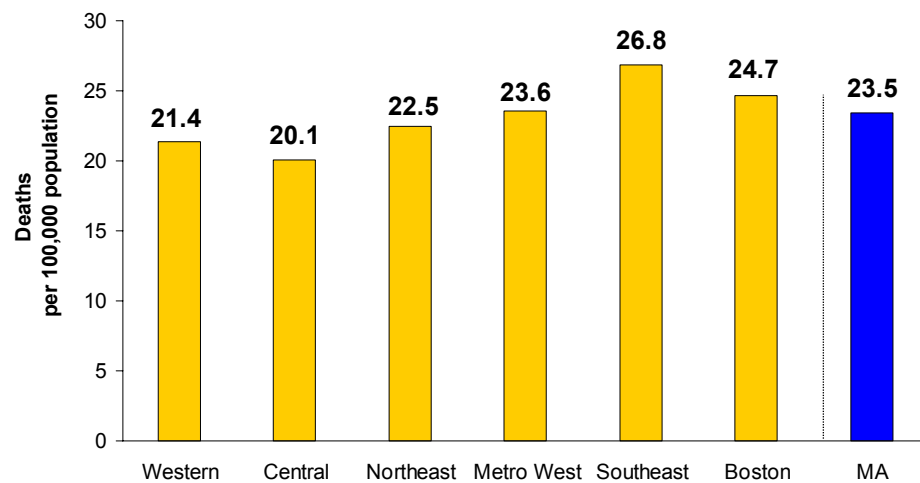
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Falls-related Injury Death Rates Persons 65+ Years by EOHHS Region Massachusetts: 2003-2005

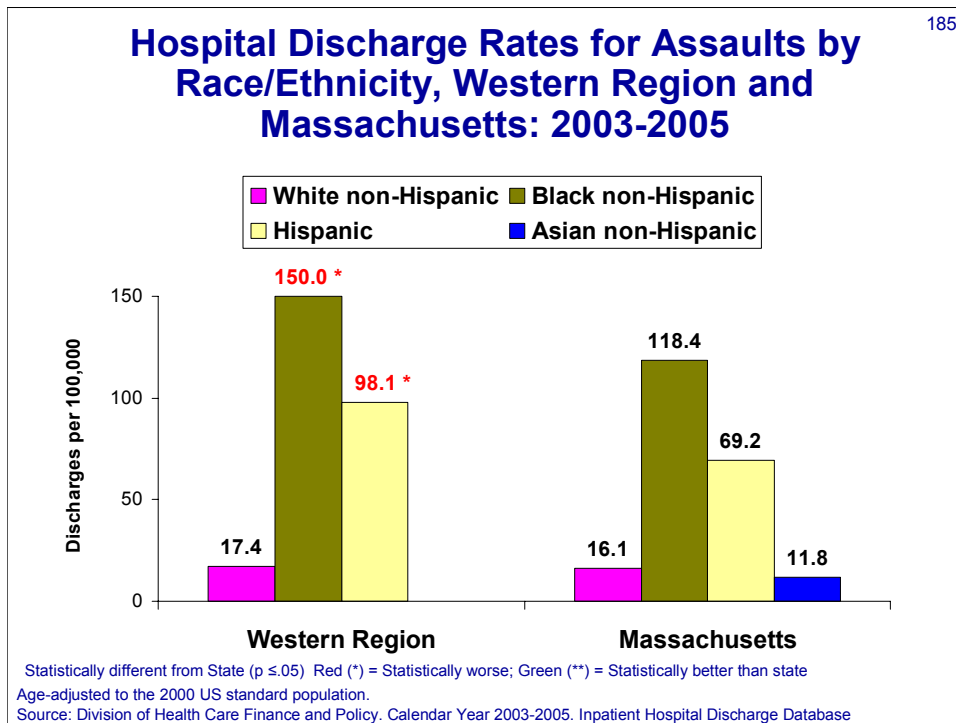
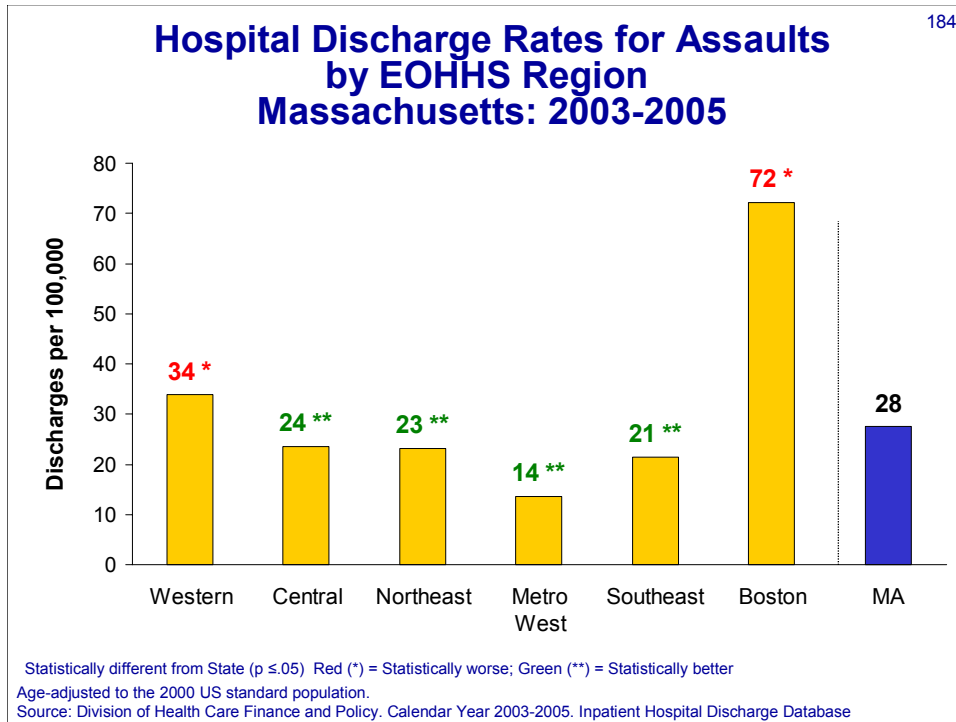
183



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

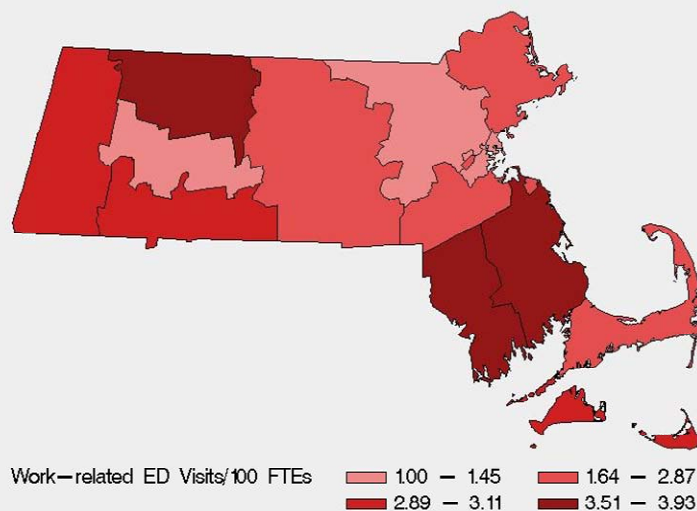
Age-adjusted to the 2000 US standard population.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program



Work—related Injuries

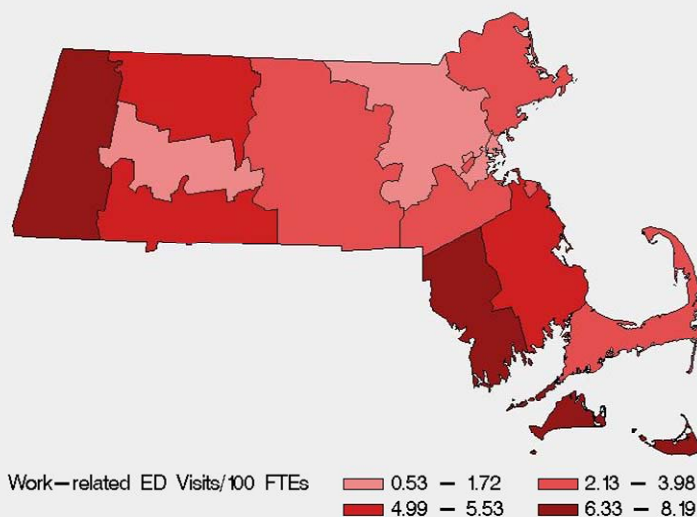
Emergency Department Visits per 100 Full Time Equivalents.
Massachusetts Counties, 2004—2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Occupational Health Surveillance Program

Work—related Injuries among Teens

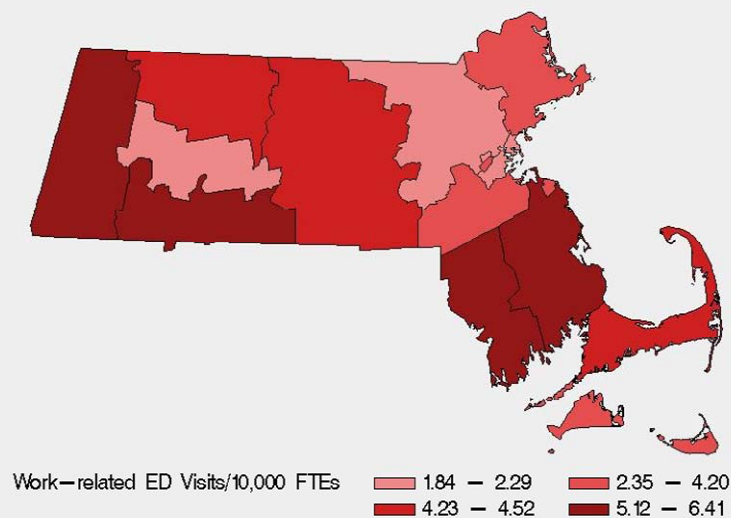
Emergency Department Visits per 100 Full Time Equivalents
Massachusetts Counties, 2004—2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Occupational Health Surveillance Program

Work—related Burn Injuries

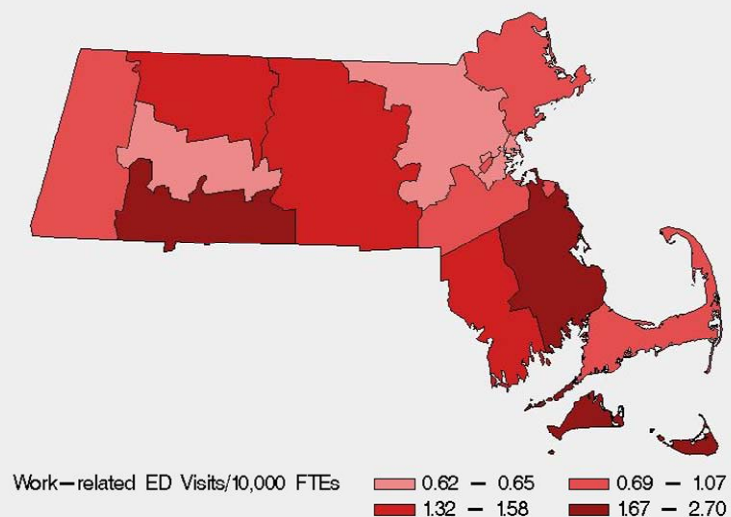
Emergency Department Visits per 10,000 Full Time Equivalents
Massachusetts Counties, 2004—2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Occupational Health Surveillance Program

Work—related Amputations

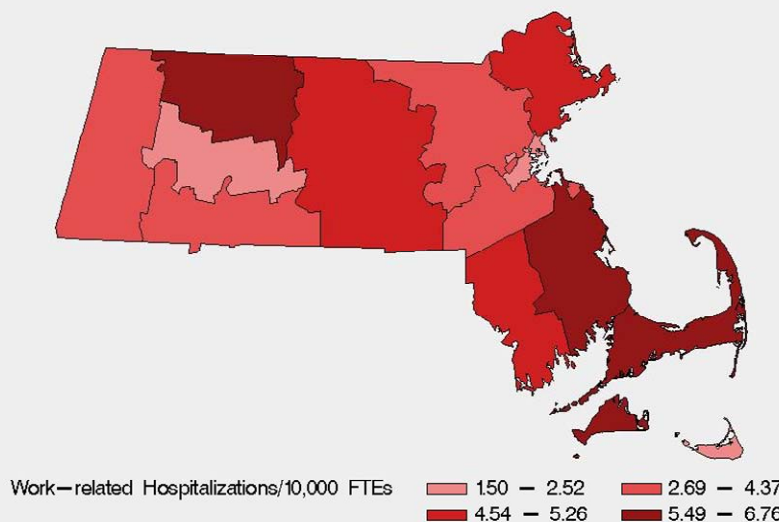
Emergency Department Visits per 10,000 Full Time Equivalents
Massachusetts Counties, 2004—2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Occupational Health Surveillance Program

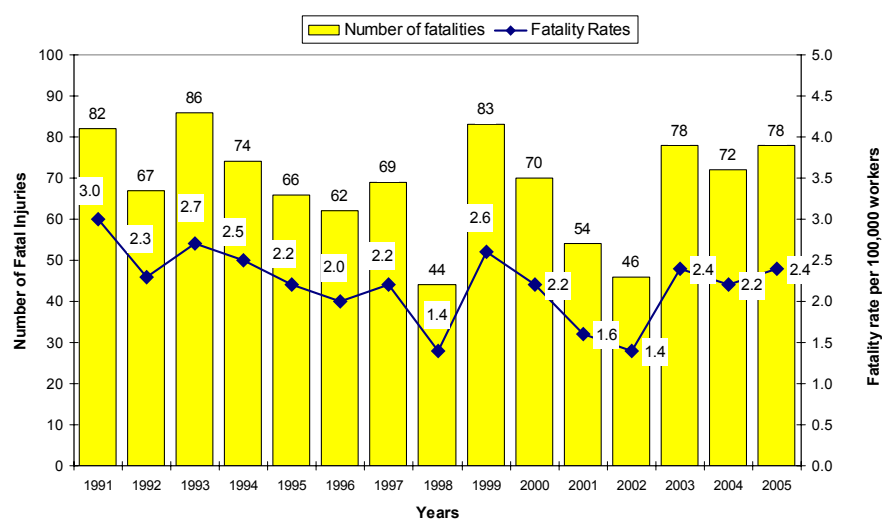
Work—related Injuries

Hospitalizations per 10,000 Full Time Equivalents.
Massachusetts Counties, 2004—2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Occupational Health Surveillance Program

Number and Rate of Fatal Occupational Injuries by year, Massachusetts: 1991- 2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Occupational Health Surveillance Program—Census of Fatal Occupational Injuries (CFOI) 1991-2005. MA employment data from BLS Current Population Survey (1991 - 2005) was used to calculate rates.

Summary Injury/Violence Hospitalization Indicators¹⁹² by EOHHS Regions, Massachusetts: 2003-2005

Hospital Discharge Indicator Rates (age-adjusted)	MA Total	Western	Central	North East	Metro West	South East	Boston
All Injuries	836	872	830	836	753	859	966
Fall-related injury hospitalizations	374	338	357	380	379	375	419
Traumatic Brain Injuries	80	93	97	82	65	73	94
Motor vehicle-related	77	93	91	73	57	88	74
Self-Inflicted	65	92	63	68	48	66	65
Assault	28	34	24	23	14	21	72

Better Outcome (significantly different from state) Worse Outcome (significantly different from state)

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Summary Injury/Violence Hospitalization Indicators¹⁹³ Communities in Western Region: 2003-2005

Hospital Discharge Indicator Rates (age-adjusted, per 100,000)	MA Total	Western	Chicopee	Holyoke	Pittsfield	Springfield
All Injuries	836	872	856	1,054	1,429	1,033
Fall-related injury hospitalizations	374	338	320	378	455	346
Traumatic Brain Injuries	80	93	102	92	143	137
Motor vehicle-related	77	93	93	99	151	114

Better Outcome (significantly different from state) Worse Outcome (significantly different from state)

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Summary Injury/Violence Hospitalization Indicators Berkshires, Western Region, Massachusetts: 2003-2005

194

Hospital Discharge Indicator Rates (age-adjusted)	MA Total	Western	Berkshires	Pittsfield
All Injuries	836	872	1059	1,429
Fall-related Injury hospitalizations	374	338	380	455
Traumatic Brain Injuries	80	93	99	143
Motor vehicle-related	77	93	110	151
Self-Inflicted	65	92	101	138
Assault	28	34	31	65

Better Outcome (significantly different from state)
 Worse Outcome (significantly different from state)

Age-adjusted to the 2000 US standard population.

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Inpatient Hospital Discharge Database

Summary Injury/Violence Emergency Department Indicators Communities in Western Region: 2003-2005

195

Indicator Age-adjusted Rate per 100,000	MA Total	Western	Chicopee	Holyoke	Pittsfield	Springfield
ER Visit Rate for all Injuries	11,298	12,323	11,739	15,012	20,747	14,319
ER Visit Rate for Traumatic Brain Injury	604	461	434	444	568	524
ER Visit Rate for Firearm	7	13	8	41	7	39
ER Visit Rate for Fall-related injuries	2,750	2,913	2,929	3,384	5,027	3,163



Better Outcome (significantly different from state)
 Worse Outcome (significantly different from state)

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Summary Injury/Violence Emergency Department Indicators Communities in Western Region: 2003-2005

196

Indicator Age-adjusted Rate per 100,00	MA Total	Western	Chicopee	Holyoke	Springfield
ER Visit Rate for all Injuries	11,298	12,323	11,739	15,012	14,319
ER Visit Rate for Traumatic Brain Injury	604	461	434	444	524
ER Visit Rate for Firearm	7	13	8	41	39
ER Visit Rate for Fall-related injuries	2,750	2,913	2,929	3,384	3,163

 Better Outcome (significantly different from state)
  Worse Outcome (significantly different from state)

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Summary Injury/Violence Emergency Department Indicators Berkshires, Western Region, Massachusetts: 2003-2005

197

Indicator Age-adjusted Rate per 100,00	MA Total	Western	Berkshires	Pittsfield
ER Visit Rate for all Injuries	11,298	12,323	16,379	20,747
ER Visit Rate for Traumatic Brain Injury	604	461	512	568
ER Visit Rate for Firearm	7	13	4	7
ER Visit Rate for Fall- related injuries	2,750	2,913	3,992	5,027

 Better Outcome (significantly different from state)
  Worse Outcome (significantly different from state)

Source: Division of Health Care Finance and Policy. Calendar Year 2003-2005. Emergency Department Visits

Summary Injury/Violence Mortality Indicators by EOHHS Region, Massachusetts: 2003-2005

198

Mortality Indicator Age-adjusted Rate per 100,000	MA Total	Western	Central	North East	Metro West	South East	Boston
Homicide Death Rate	2.6	3.3	1.7	1.8	0.7	2.6	7.3
Suicide Death Rate	6.6	7.9	7.2	7.4	5.3	6.9	5.5
Motor Vehicle-related Death Rate	7.7	10.2	9.8	6.4	5.4	10.7	4.6
Firearm Death Rate	3.2	4.1	3.1	2.9	1.3	3.4	5.9
Fall-related Injury Death Rate	3.8	3.2	3.5	3.8	3.6	4.3	4.3



Better Outcome (significantly different from state)



Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Summary Injury/Violence Mortality Indicators Communities in Western Region: 2003-2005

199

Mortality Indicator Age-adjusted Rate per 100,000	MA Total	Western	Chicopee	Holyoke	Pittsfield	Springfield
Homicide Death Rate	2.6	3.3	3.9	6.5	5.1	8.9
Suicide Death Rate	6.6	7.9	7.3	8.9	7.3	8.3
Motor Vehicle-related Death Rate	7.7	10.2	6.7	10.3	12.8	10.4
Firearm Death Rate	3.2	4.1	NA	6.4	6.4	6.7
Fall-related Injury Death Rate	3.8	3.2	NA	6.0	4.2	2.1



Better Outcome (significantly different from state)



Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

200

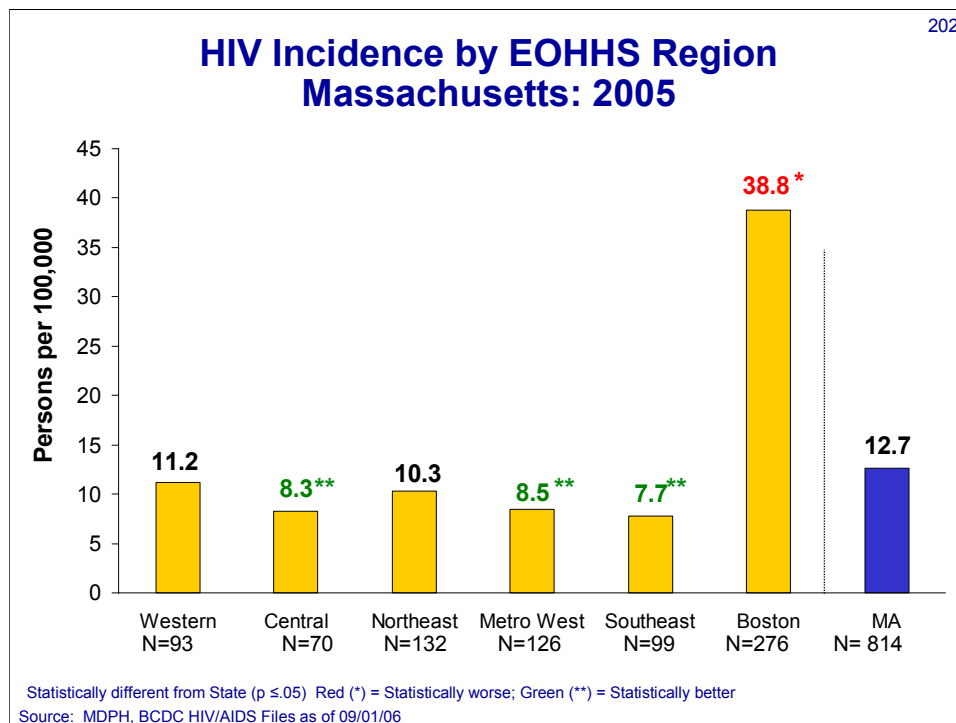
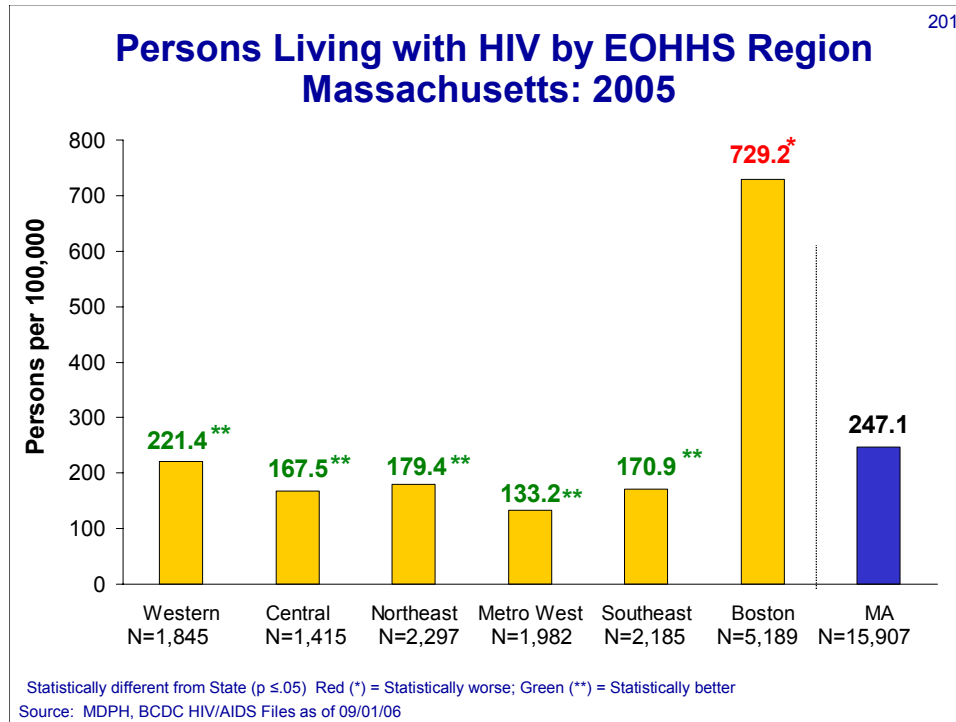
Summary Injury/Violence Mortality Indicators Berkshires, Western Region, Massachusetts: 2003-2005

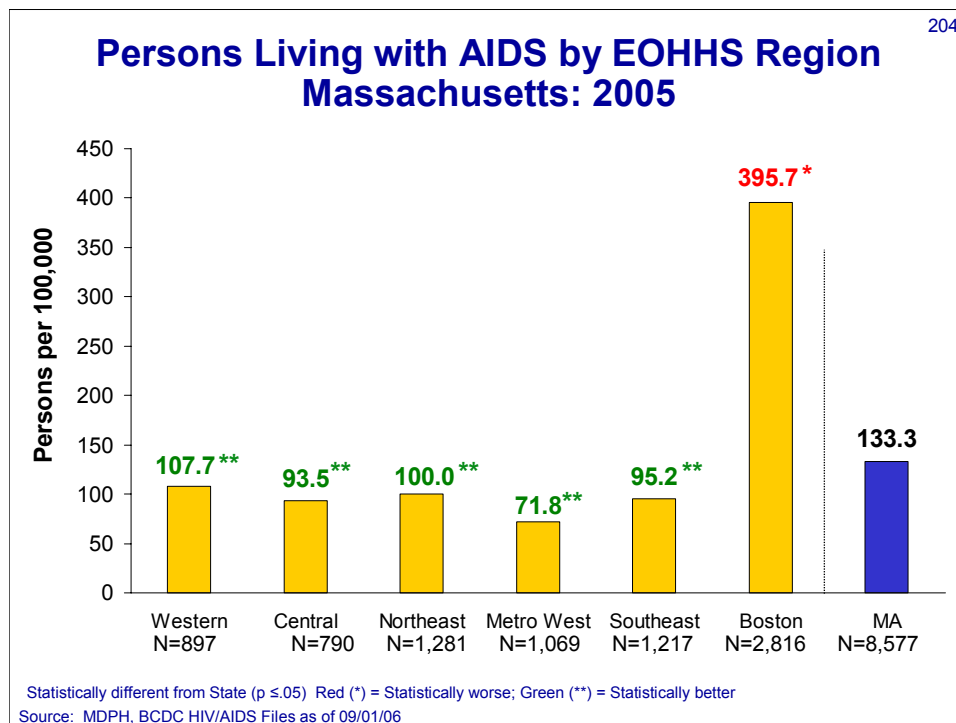
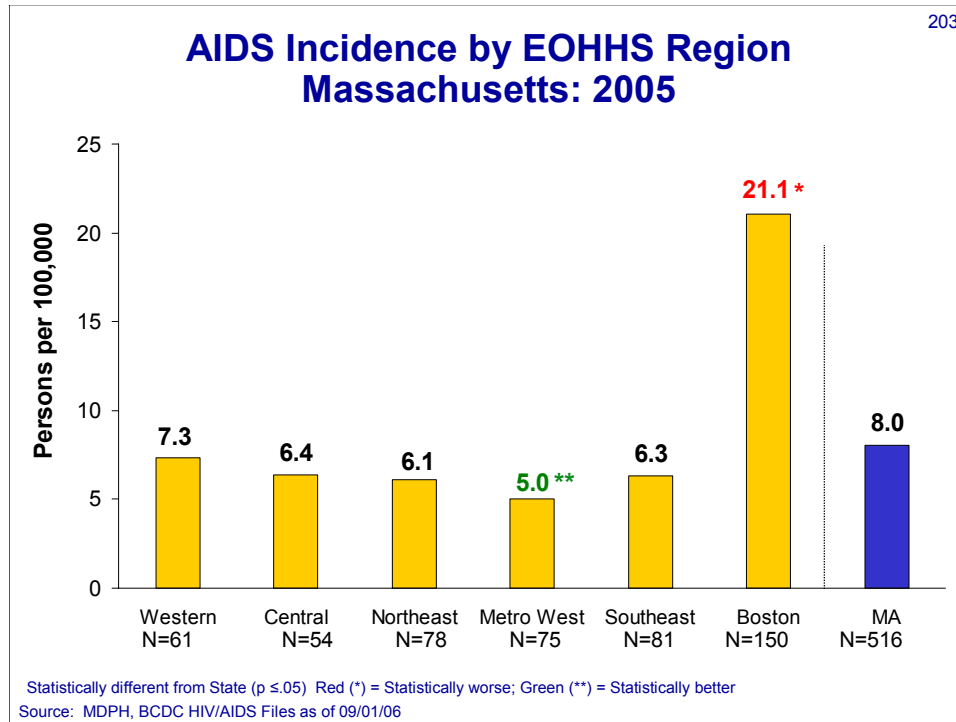
Mortality Indicator Age-adjusted Rate per 100,000	MA Total	Western	Berkshires	Pittsfield
Homicide Death Rate	2.6	3.3	1.8	5.1
Suicide Death Rate	6.6	7.9	7.1	7.3
Motor Vehicle-related Death Rate	7.7	10.2	12.9	12.8
Firearm Death Rate	3.2	4.1	3.6	6.4
Fall-related Injury Death Rate	3.8	3.2	3.7	4.2

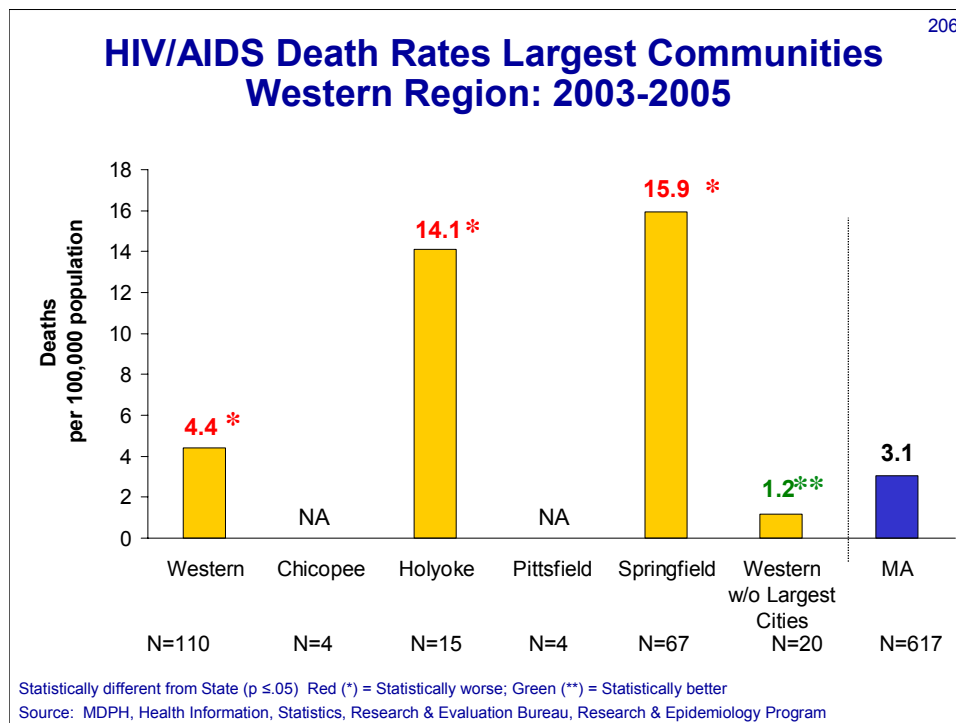
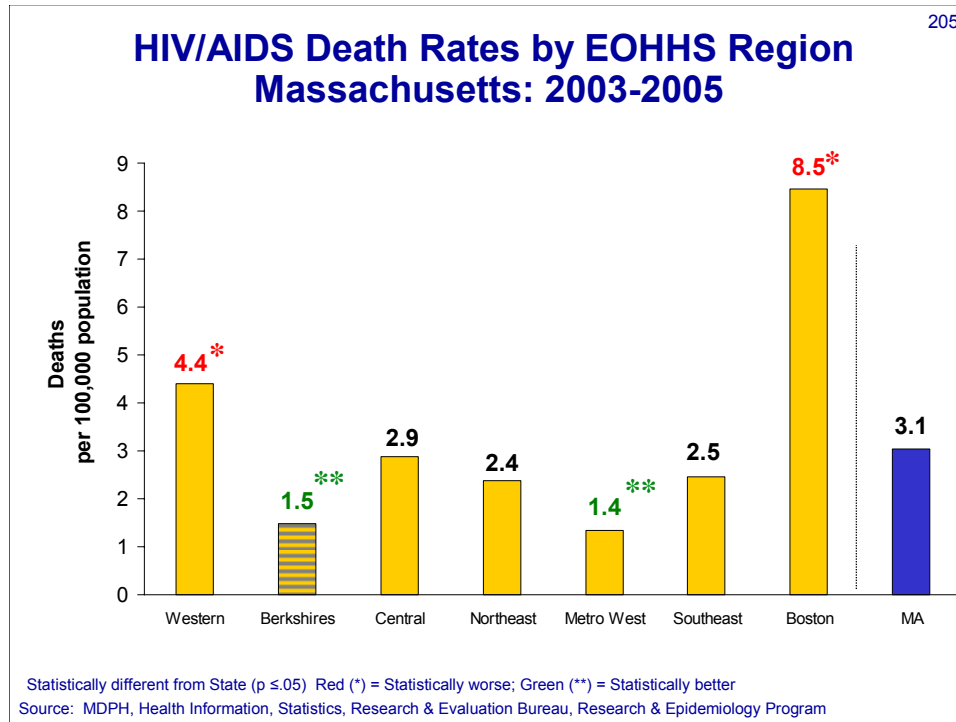
■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

HIV/AIDS

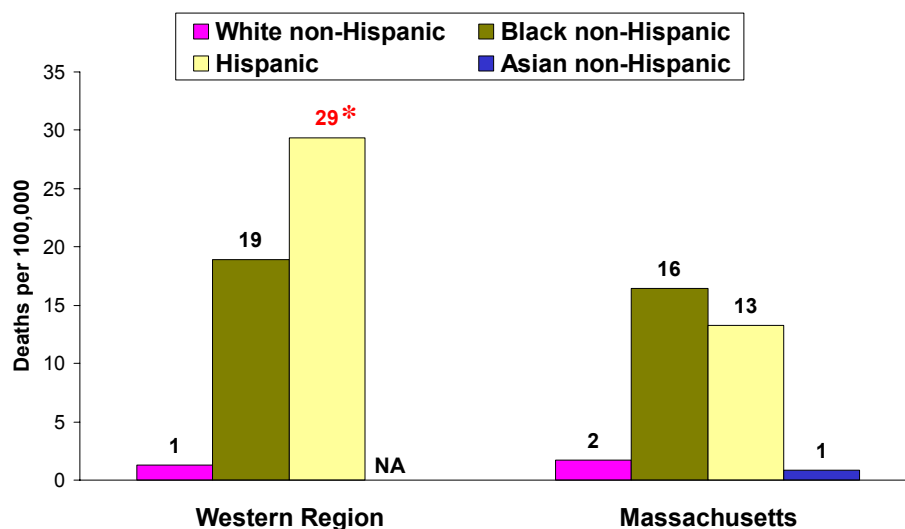






HIV/AIDS Death Rate by Race/Ethnicity Western Region and Massachusetts: 2003-2005

207



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Age-adjusted to the 2000 US standard population.
Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Summary HIV/AIDS Indicators by EOHHS Region

208

Indicator Crude rate, per 100,000	MA Total	Western	Central	North East	Metro West	South East	Boston
Persons living with HIV (2005)	247.1	221.4	167.5	179.4	133.1	170.9	729.2
HIV Incidence(2005)	12.6	11.2	8.3	10.3	8.5	7.7	38.8
Persons living with AIDS (2005)	133.2	107.7	93.5	100.0	71.8	95.2	395.7
AIDS Incidence (2005)	8.0	7.3	6.4	6.1	5.0	6.3	21.1
HIV/AIDS Mortality (2003-2005)	3.1	4.4	2.9	2.4	1.4	2.5	8.5

Better Outcome (significantly different from state) Worse Outcome (significantly different from state)

Summary HIV/AIDS Indicators Communities in Western Region

209

Indicator	MA Total	Western	Chicopee	Holyoke	Pittsfield	Springfield
Persons living with HIV (crude rate per 100,000) (2005)	247.1	221.4	225.3	800.7	95.6	634.4
HIV Incidence (crude rate per 100,000) (2005)	12.6	11.2	12.8	39.0	NA	33.9
Persons living with AIDS (crude rate per 100,000) (2005)	133.2	107.7	108.1	372.4	43.2	307.6
AIDS Incidence (crude rate per 100,000) (2005)	8.0	7.3	NA	31.6	NA	21.7
HIV/AIDS Mortality (age-adjusted per 100,000) (2003-2005)	3.1	4.4	NA	14.1	NA	NA

 Better Outcome (significantly different from state)  Worse Outcome (significantly different from state)

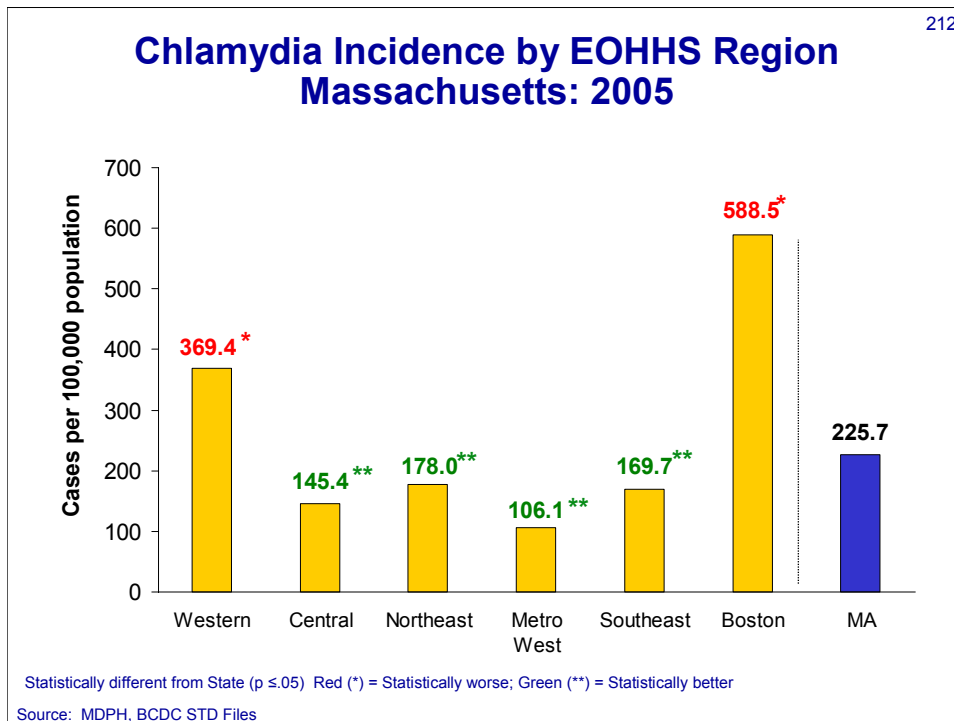
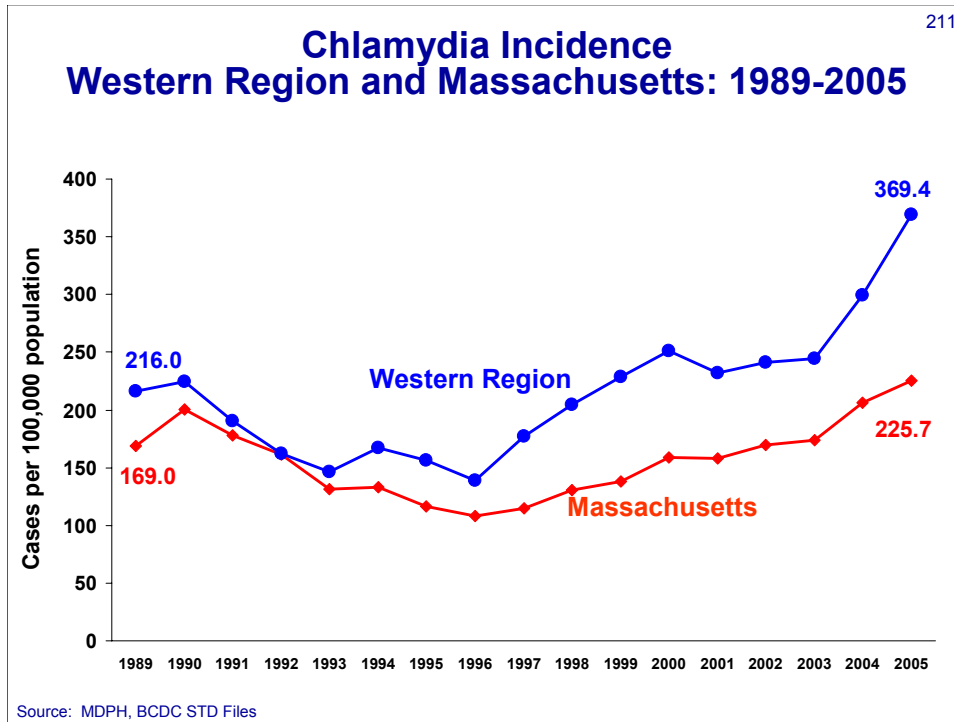
Summary HIV/AIDS Indicators Communities in Western Region

210

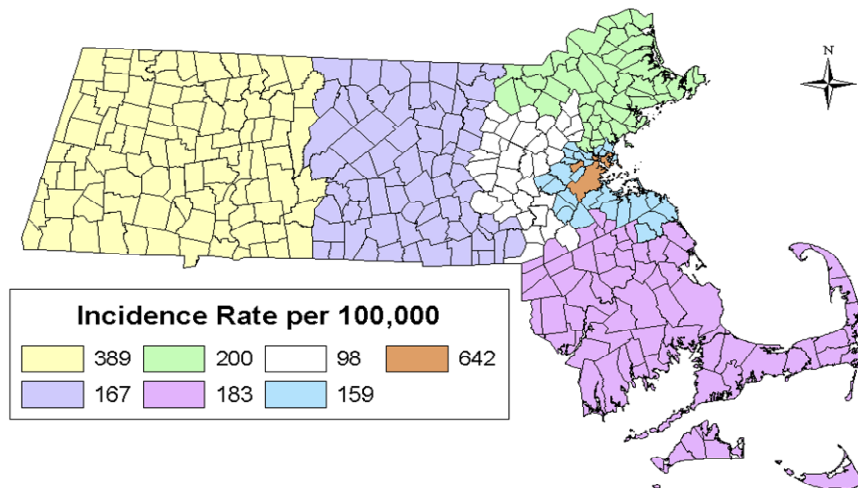
Indicator	MA Total	Western	Pittsfield	Berkshires
Persons living with HIV (crude rate per 100,000) (2005)	247.1	221.4	95.6	64.4
HIV Incidence (crude rate per 100,000) (2005)	12.6	11.2	NA	NA
Persons living with AIDS (crude rate per 100,000) (2005)	133.2	107.7	43.2	30.3
AIDS Incidence (crude rate per 100,000) (2005)	8.0	7.3	NA	3.8
HIV/AIDS Mortality (age-adjusted per 100,000) (2003-2005)	3.1	4.4	NA	1.5

 Better Outcome (significantly different from state)  Worse Outcome (significantly different from state)

INFECTIOUS DISEASES

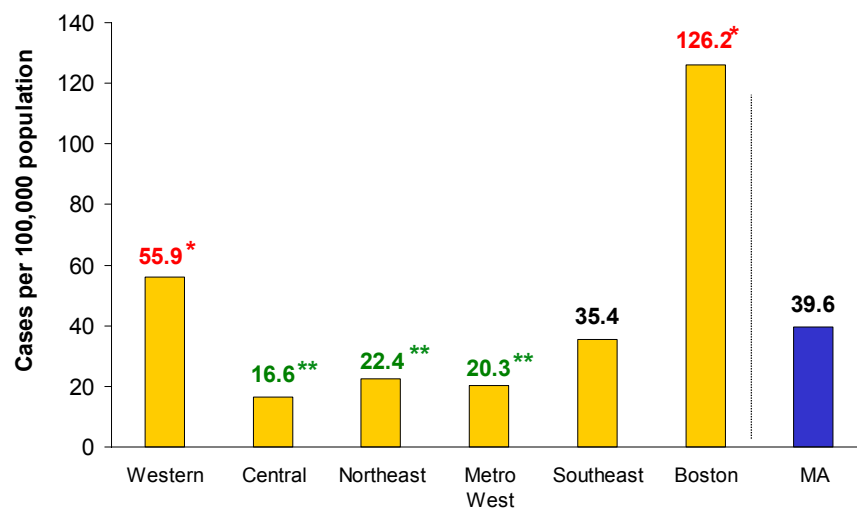


Chlamydia Incidence Rate by Emergency Preparation Region, 2006



Source: MDPH, BCDC STD Files

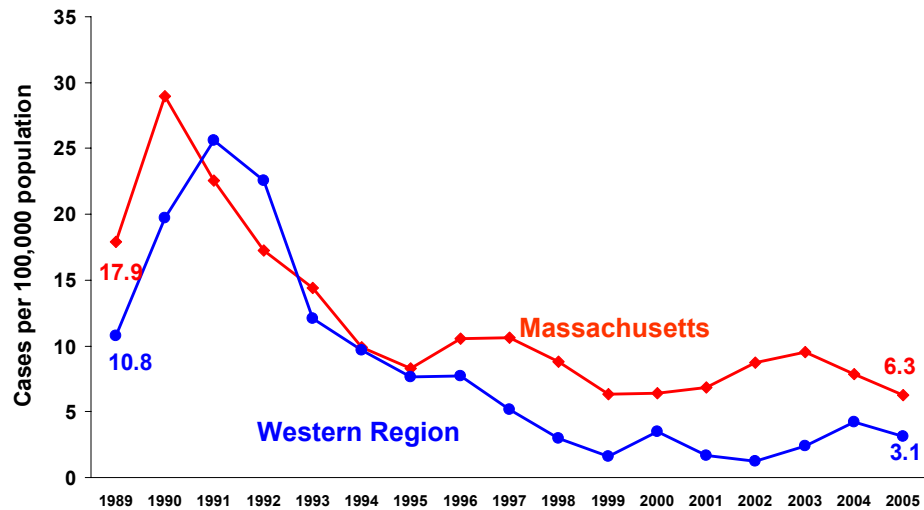
Gonorrhea Incidence by EOHHS Region Massachusetts: 2005



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better

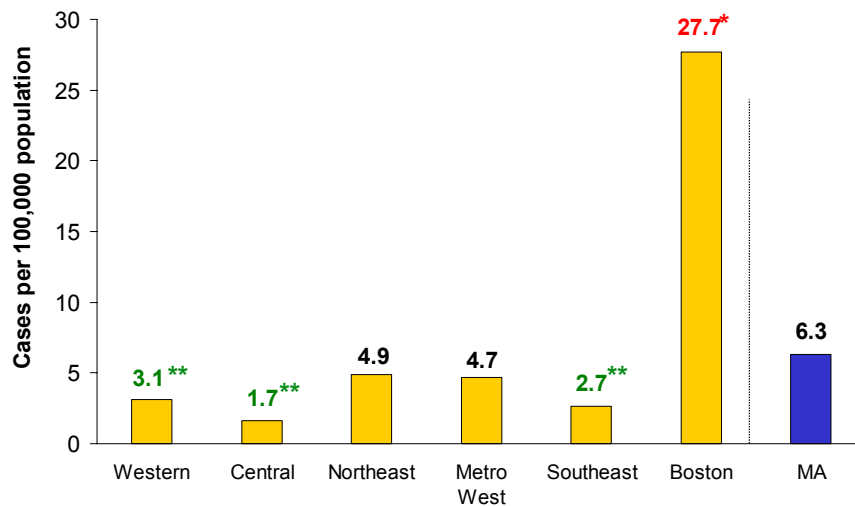
Source: MDPH, BCDC STD Files

Syphilis Incidence Western Region and Massachusetts: 1989-2005

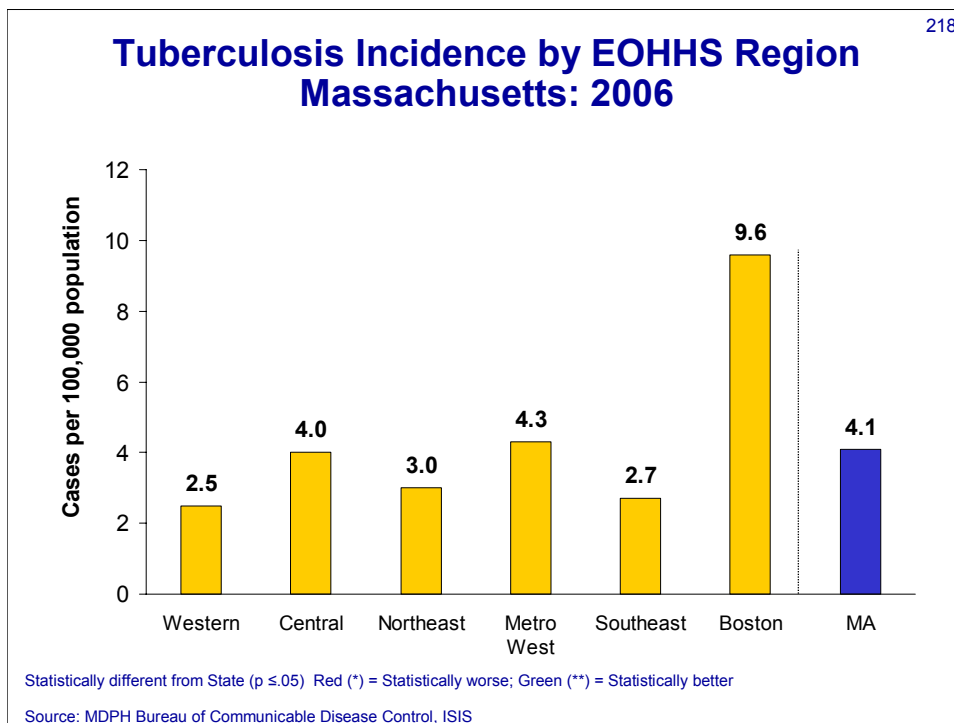
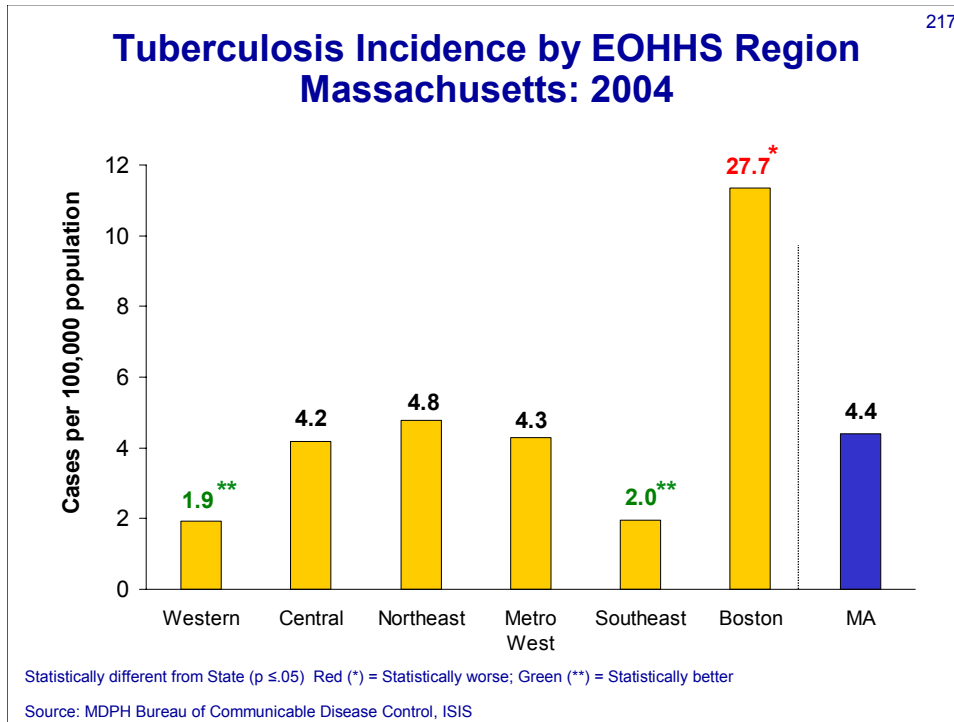


Source: MDPH, BCDC STD Files

Syphilis Incidence by EOHHS Region Massachusetts: 2005



Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better
Source: MDPH, BCDC STD Files

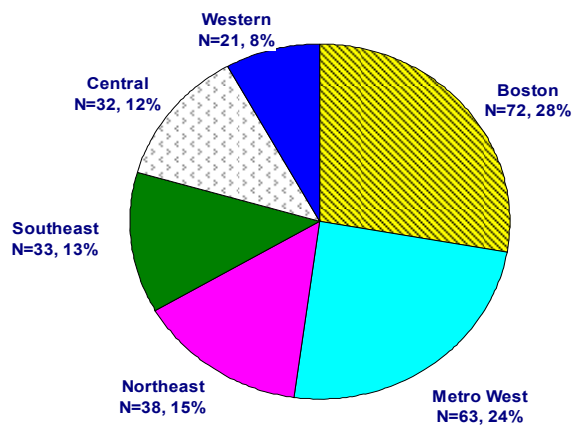


Confirmed Tuberculosis Cases by Race/Ethnicity and EOHHS Region Massachusetts: 2006

EOHHS Region	White non-Hispanic	Black non-Hispanic	Asian/Pacific Islander	Hispanic
West	<5	<5	8	<5
Central	<5	6	14	10
Northeast	5	6	19	6
Metro Boston	21	20	21	13
Boston	8	26	19	8
Southeast	14	9	<5	8

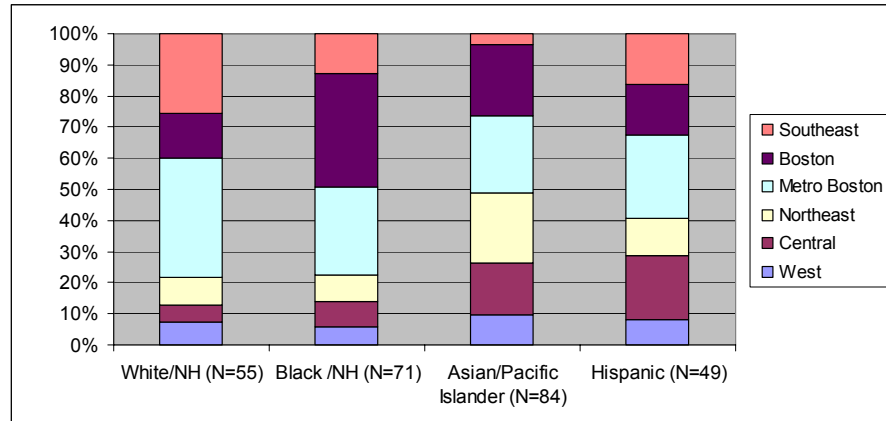
Source: MDPH Bureau of Communicable Disease Control, ISIS

Percent of Confirmed Tuberculosis Cases by EOHHS Region Massachusetts: 2006 (N = 259)



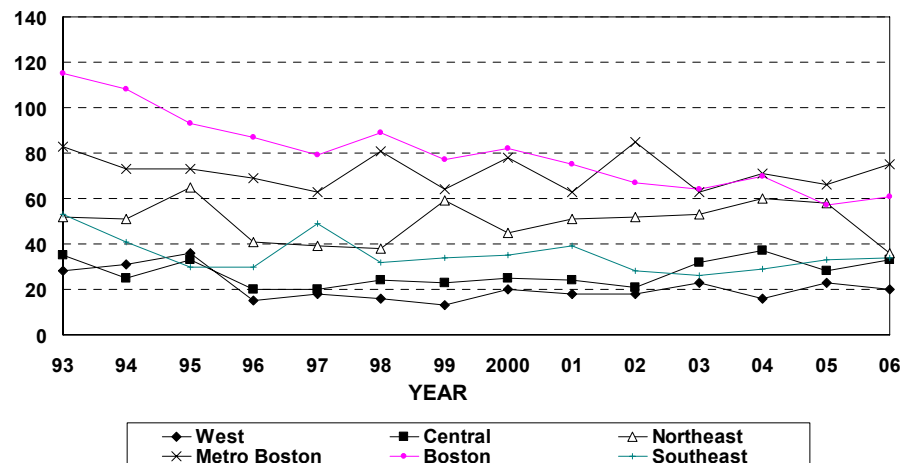
Source: MDPH Bureau of Communicable Disease Control, ISIS

Percent of Confirmed Tuberculosis Cases by Race/Ethnicity and EOHHS Region Massachusetts: 2006



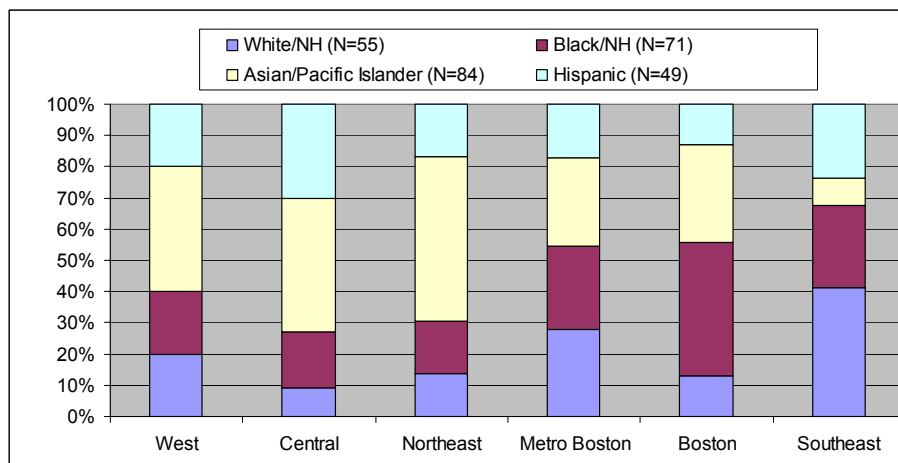
Source: MDPH Bureau of Communicable Disease Control, ISIS

Tuberculosis Cases by EOHHS Region Massachusetts: 1993-2006



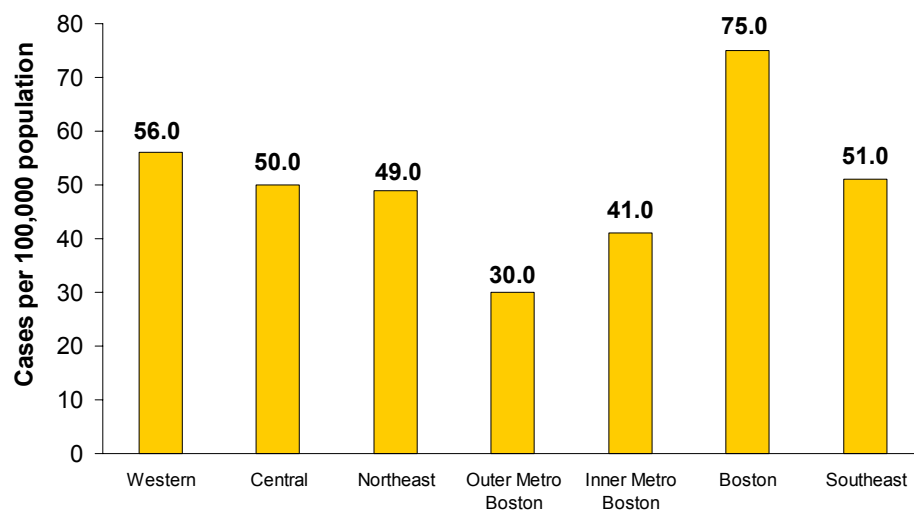
Source: MDPH Bureau of Communicable Disease Control, ISIS

Percent of Confirmed Tuberculosis Cases by Race/Ethnicity and EOHHS Region Massachusetts: 2006



Source: MDPH Bureau of Communicable Disease Control, ISIS

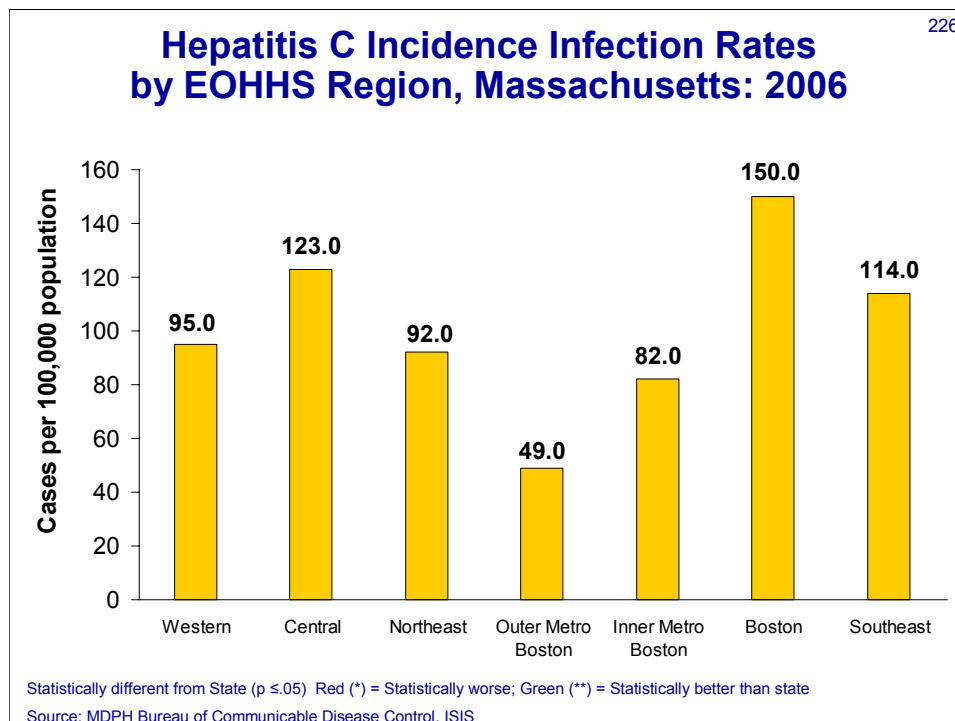
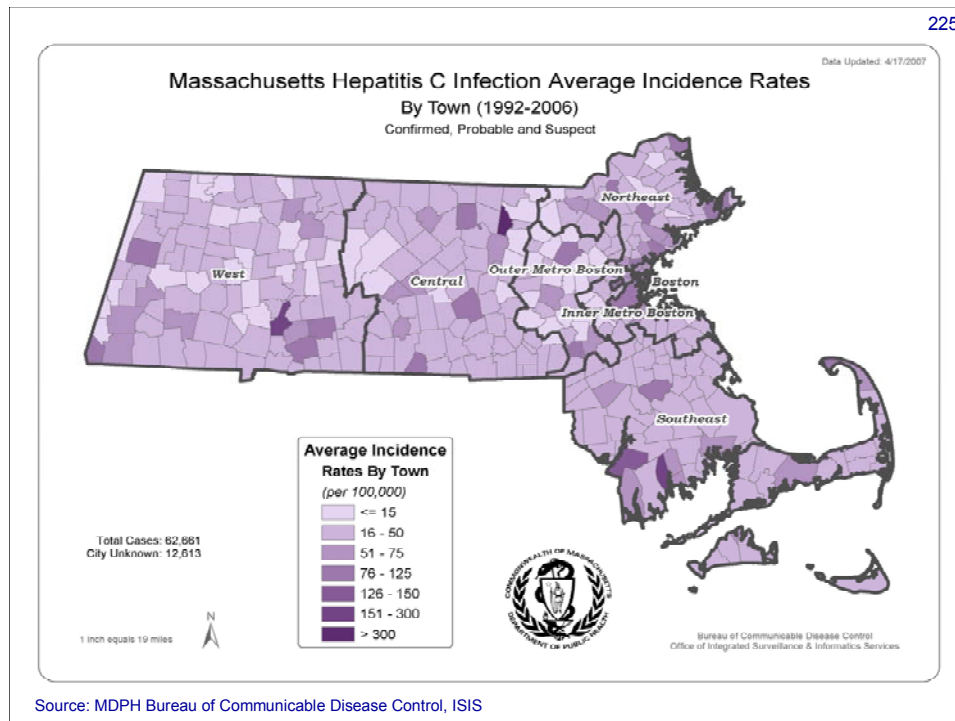
Hepatitis C Average Incidence Rates by EOHHS Region, Massachusetts: 1992-2006¹

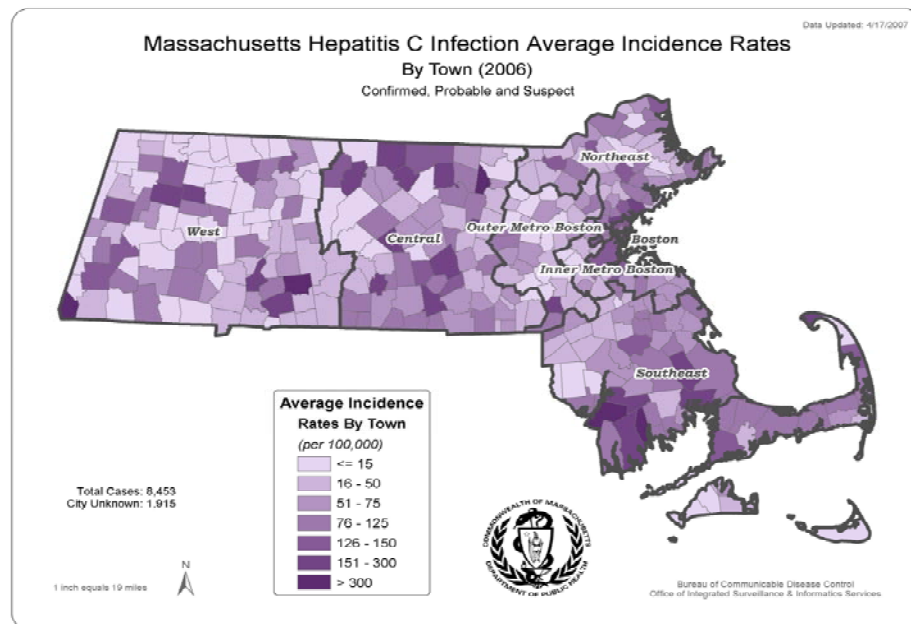


¹ Data as of March 17, 2007

Statistically different from State ($p \leq 0.05$). Red (*) = Statistically worse; Green (**) = Statistically better than state

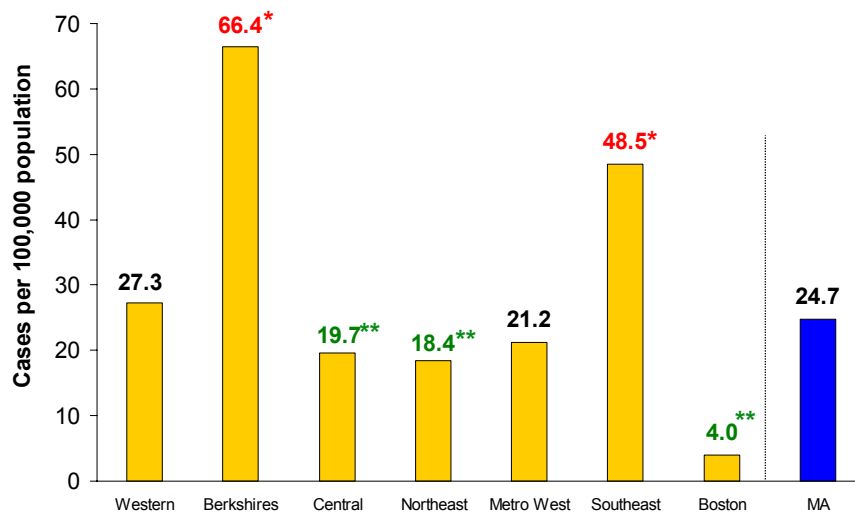
Source: MDPH Bureau of Communicable Disease Control, ISIS





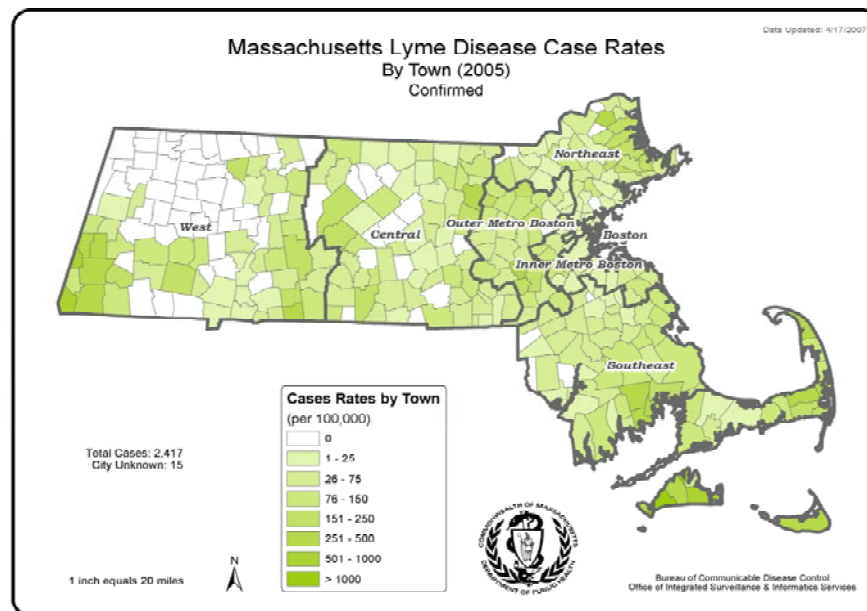
Source: MDPH Bureau of Communicable Disease Control, ISIS

Lyme Disease Incidence by EOHHS Region Massachusetts: 2004



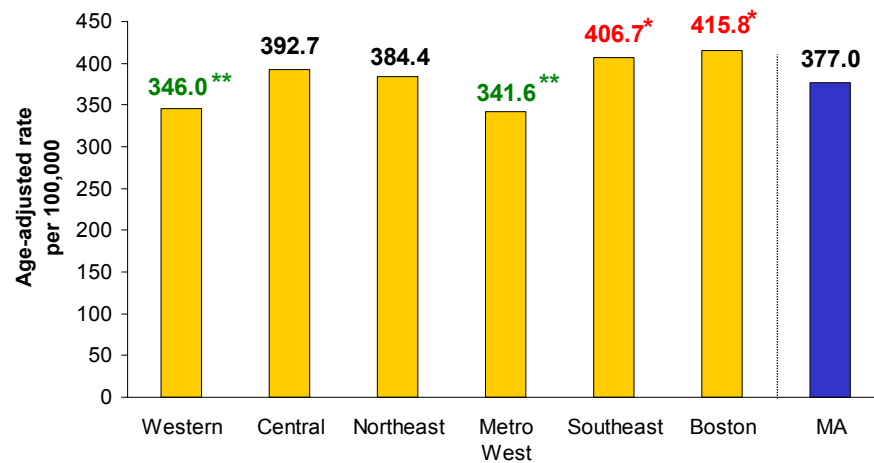
Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH Bureau of Communicable Disease Control, ISIS



Source: MDPH Bureau of Communicable Disease Control, ISIS

Pneumonia/Influenza Hospital Discharges by EOHHS Region, Massachusetts: 2005



Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Inpatient Hospital Discharge Database

Summary Infectious Disease Indicators by EOHHS Region

231

Indicator	MA Total	Western	Central	North East	Metro West	Southeast	Boston
Chlamydia Incidence (crude rates, 2005)	225.7	369.4	145.4	178.0	106.1	169.7	588.5
Gonorrhea Incidence (crude rates, 2005)	39.6	55.9	16.6	22.4	20.3	35.4	126.2
Syphilis Incidence (crude rates, 2005)	6.3	3.1	1.7	4.9	4.7	2.7	22.7
Tuberculosis Incidence (crude rates, 2006)	4.1	2.5	4.0	3.0	4.3	2.7	9.6
Lyme Disease Incidence (crude rates, 2004)	24.7	27.3	19.7	18.4	21.2	48.4	4.0
Average Hep C Incidence Infection (crude rates, 2006)	114.0	95.0	123.0	92.0	49.0	82.0	150.0
Pneumonia/ Influenza Hospital Discharges (age-adjusted, 2005)	377.0	346.0	392.7	384.4	341.5	406.7	415.8



Better Outcome (significantly different from state)



Worse Outcome (significantly different from state)

Summary Infectious Disease Indicators Communities in Western Region

232

Indicator	MA Total	Western	Chicopee	Holyoke	Springfield
Chlamydia Incidence (crude rates, 2005)	225.7	369.4	245.4	810.4	1,018.2
Gonorrhea Incidence (crude rates, 2005)	39.6	55.9	31.1	104.6	190.0
Syphilis Incidence (crude rates, 2005)	6.3	3.1	NA	NA	11.5
Tuberculosis Incidence (crude rates, 2004)	4.4	1.9	NA	NA	NA
Lyme Disease Incidence (crude rates, 2004)	24.7	27.3	NA	NA	NA
Pneumonia/ Influenza Hospital Discharges (age- adjusted, 2005)	377.0	346.0	315.4	466.5	383.1



Better Outcome (significantly different from state)



Worse Outcome (significantly different from state)

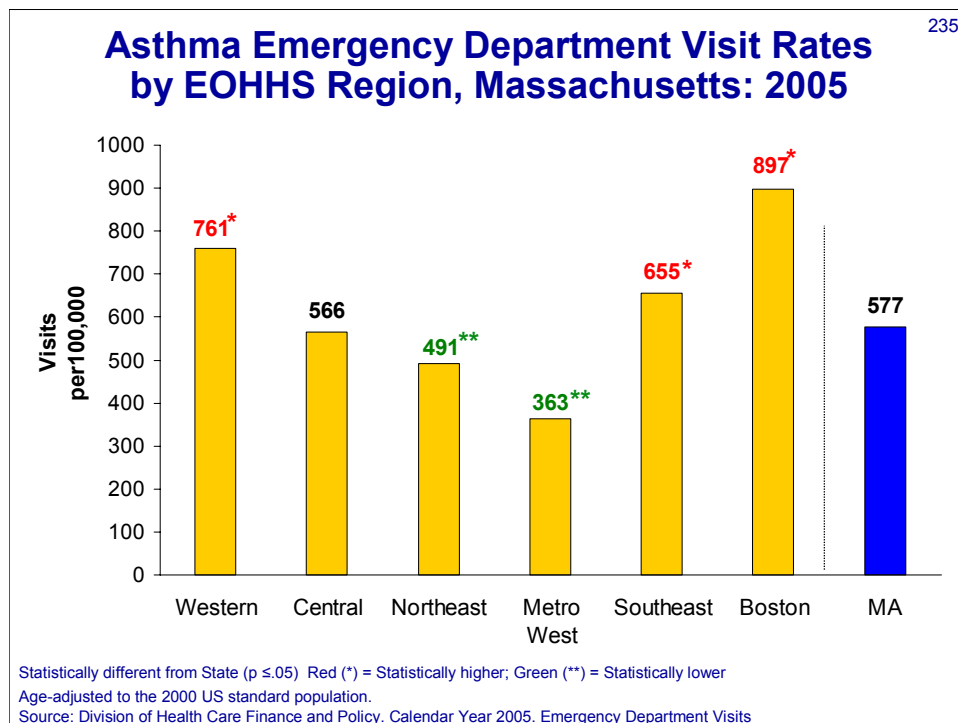
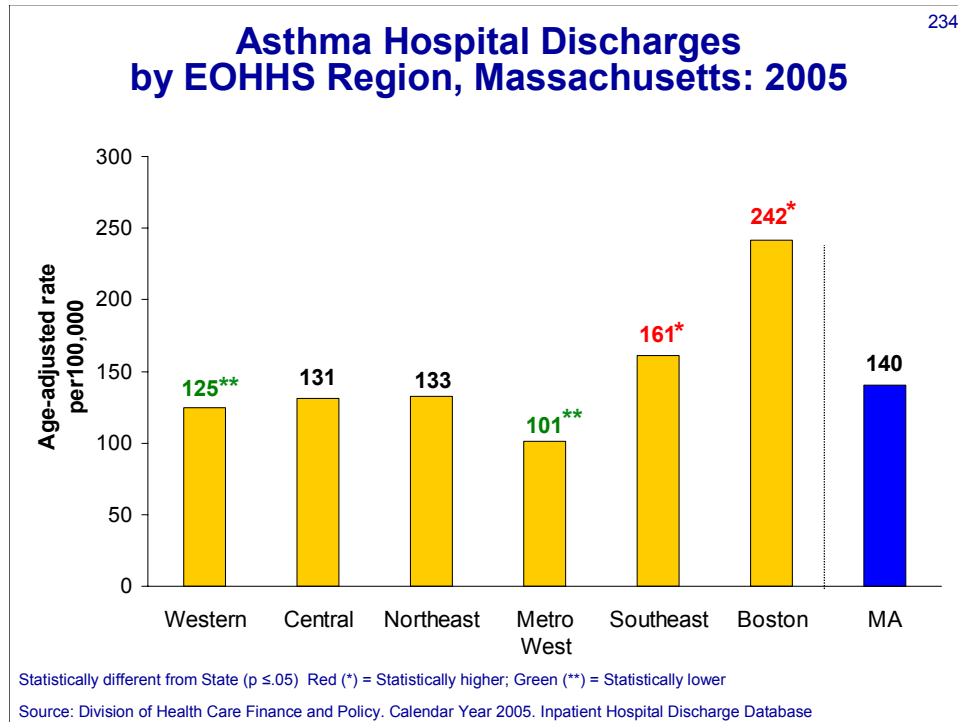
Summary Infectious Disease Indicators Communities in Western Region

233

Indicator	MA Total	Western	Pittsfield	Berkshires
Chlamydia Incidence (crude rates, 2005)	225.7	369.4	395.9	233.4
Gonorrhea Incidence (crude rates, 2005)	39.6	55.9	70.5	34.9
Syphilis Incidence (crude rates, 2005)	6.3	3.1	NA	NA
Tuberculosis Incidence (crude rates, 2004)	4.4	1.9	NA	NA
Lyme Disease Incidence (crude rates, 2004)	24.7	27.3	NA	66.4
Pneumonia/ Influenza Hospital Discharges (age-adjusted, 2005)	377.0	346.0	310.0	290.0

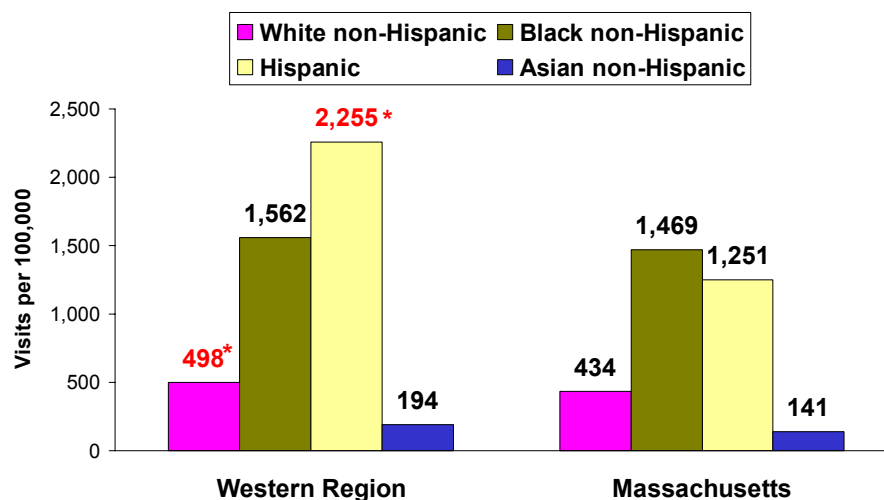
 Better Outcome (significantly different from state)
  Worse Outcome (significantly different from state)

ASTHMA



Emergency Department Visit Rates for Asthma by Race/Ethnicity Western Region and Massachusetts: 2005

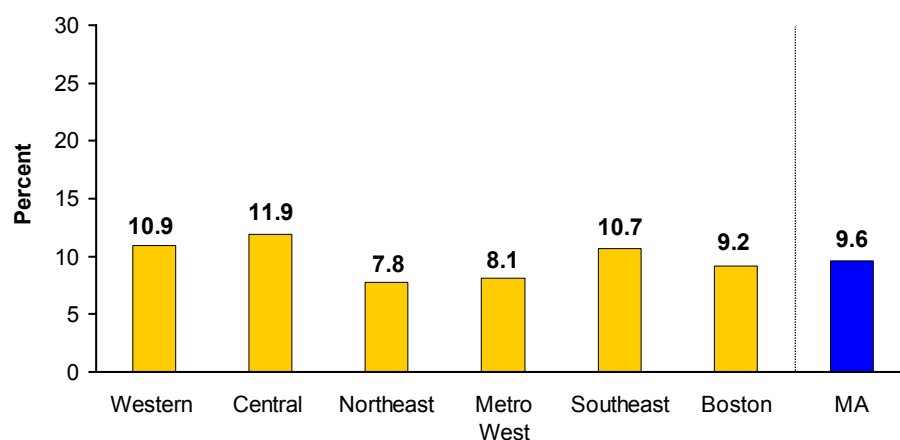
236



Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits

Adults who Currently have Asthma by EOHHS Region, Massachusetts: 2005

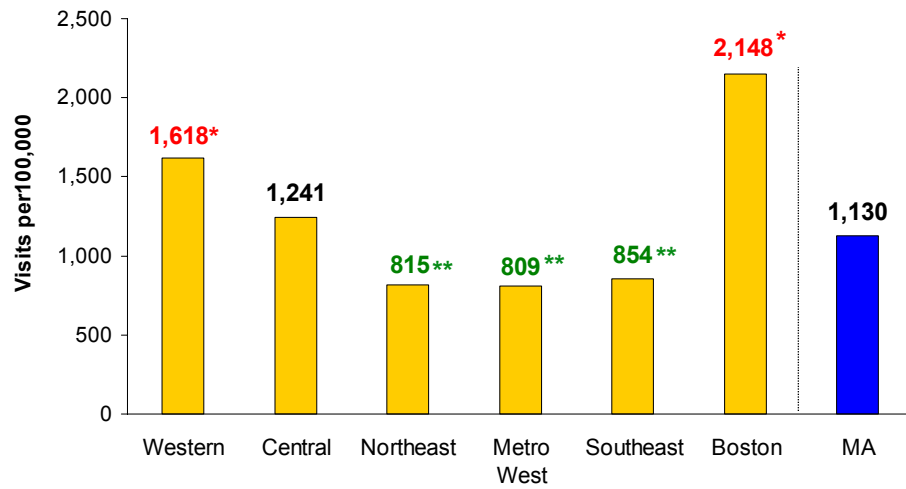
237



Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower
Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Asthma Emergency Department Visit Rates Children Ages 0-4 by EOHHS Region, Massachusetts: 2005

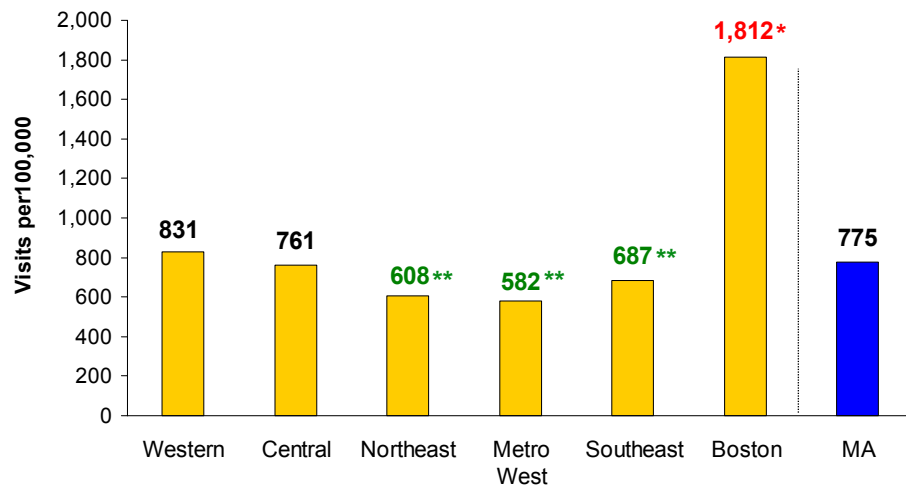
238



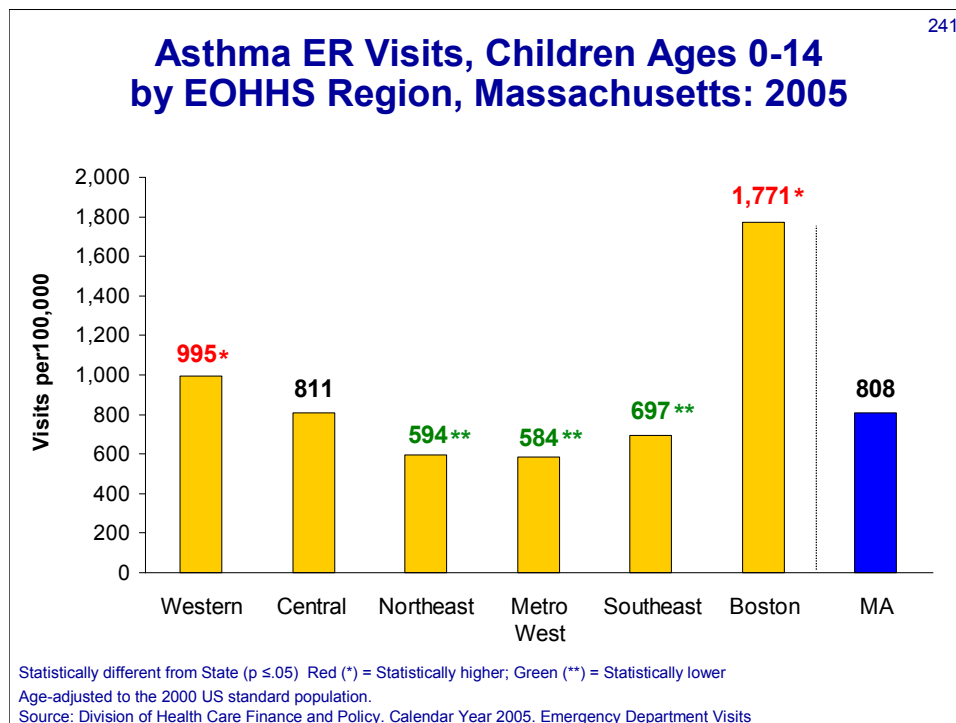
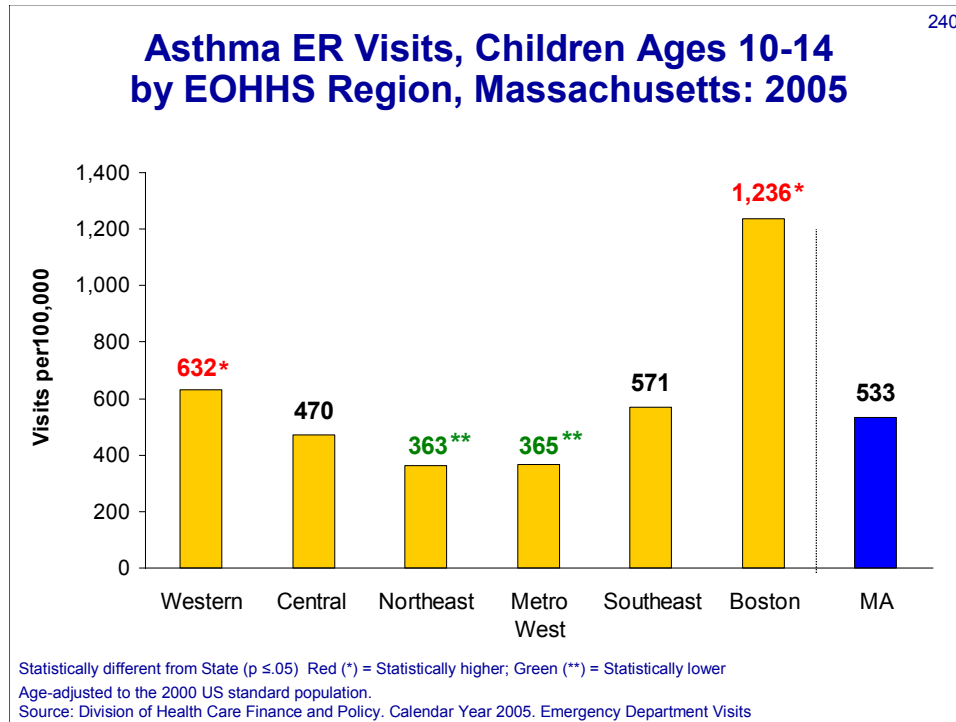
Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits

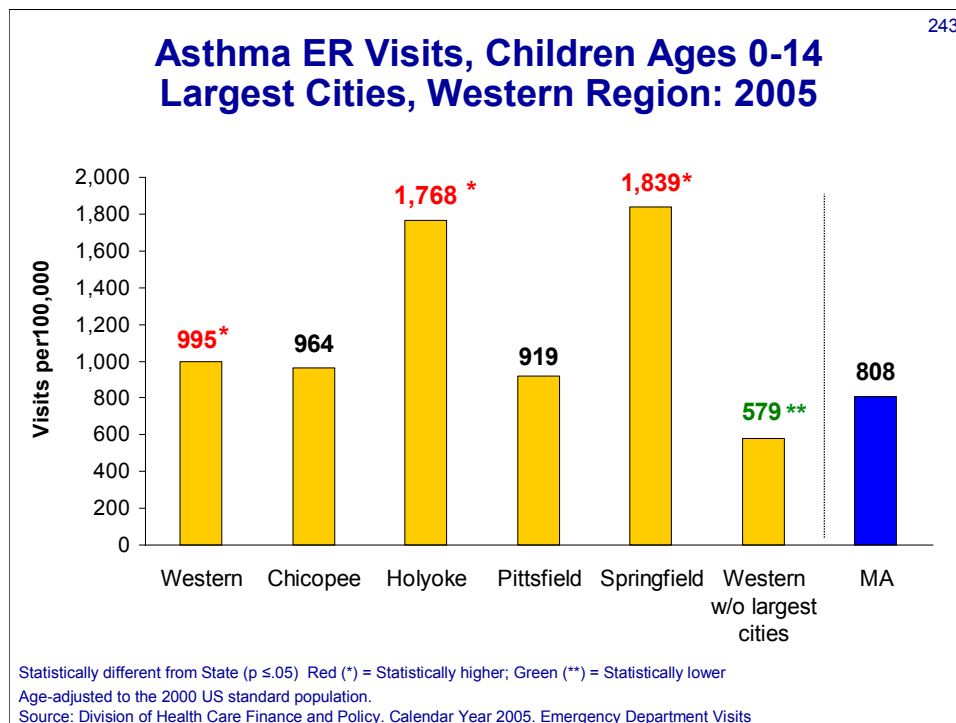
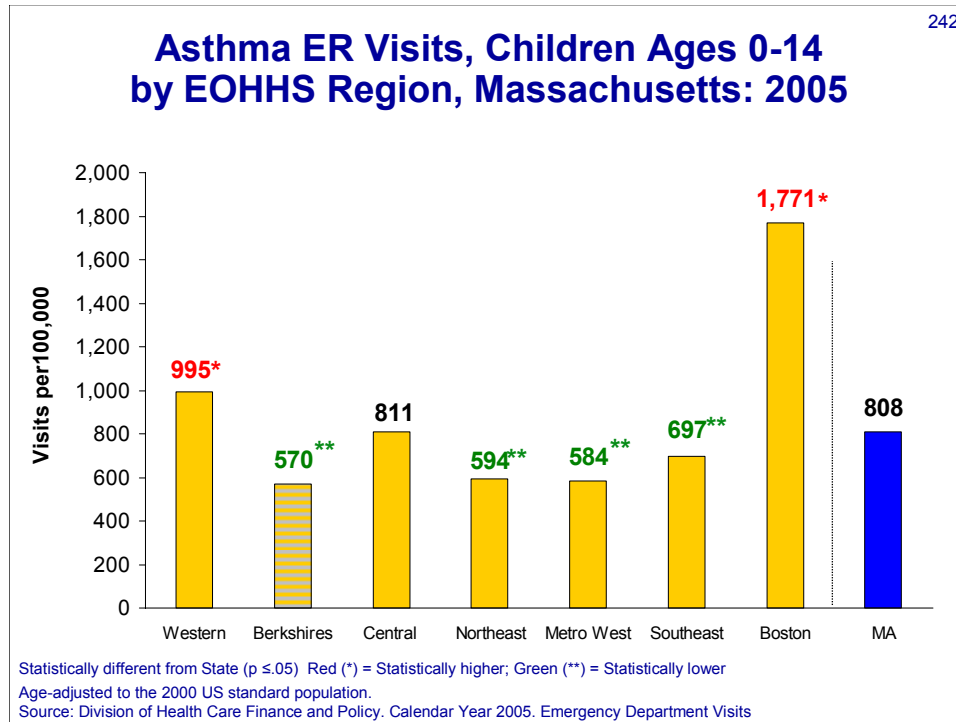
Asthma ER Visits, Children Ages 5-9 by EOHHS Region, Massachusetts: 2005

239



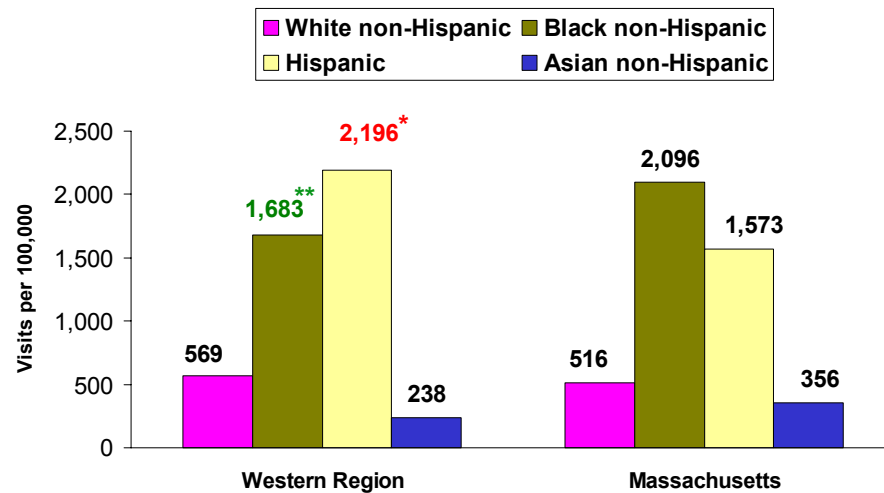
Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits





Asthma Emergency Department Visit Rates Children Ages 0-14 Western Region and Massachusetts: 2005

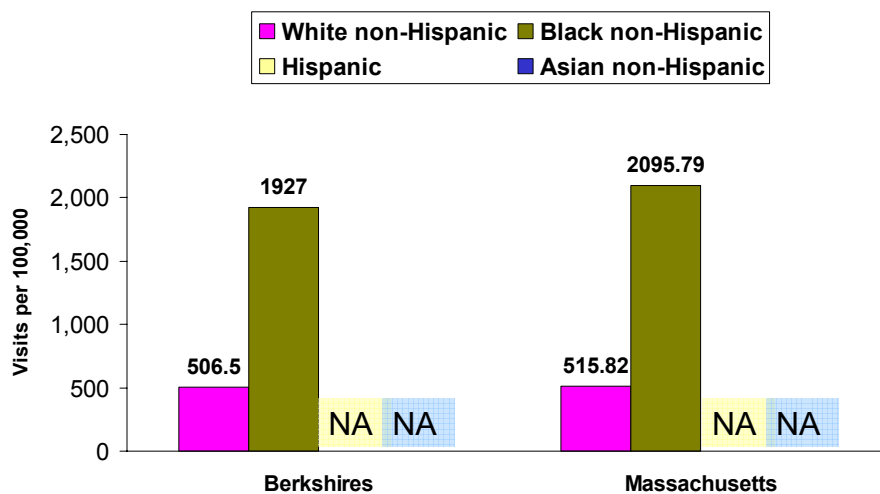
244



Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits

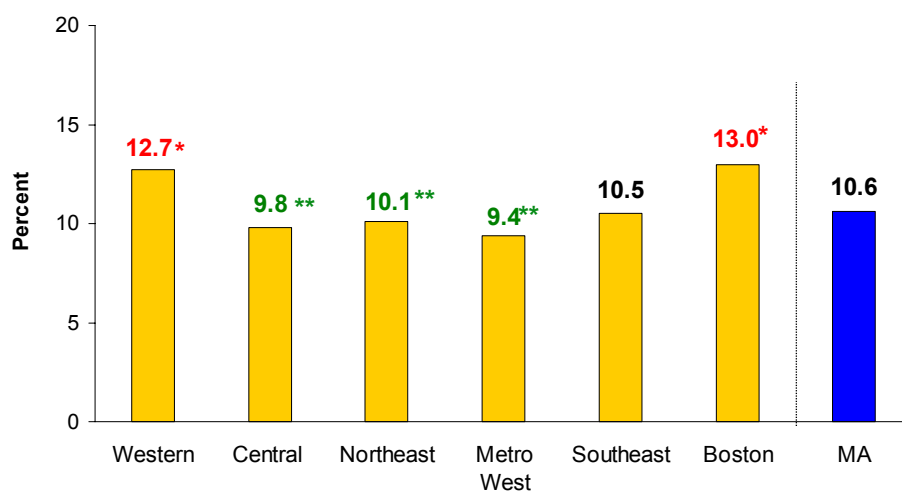
Asthma Emergency Department Visit Rates Children Ages 0-14 Berkshires and Massachusetts: 2005

245



Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower
Age-adjusted to the 2000 US standard population.
Source: Division of Health Care Finance and Policy. Calendar Year 2005. Emergency Department Visits

Pediatric Asthma Prevalence by EOHHS Region Massachusetts: 2005-2006

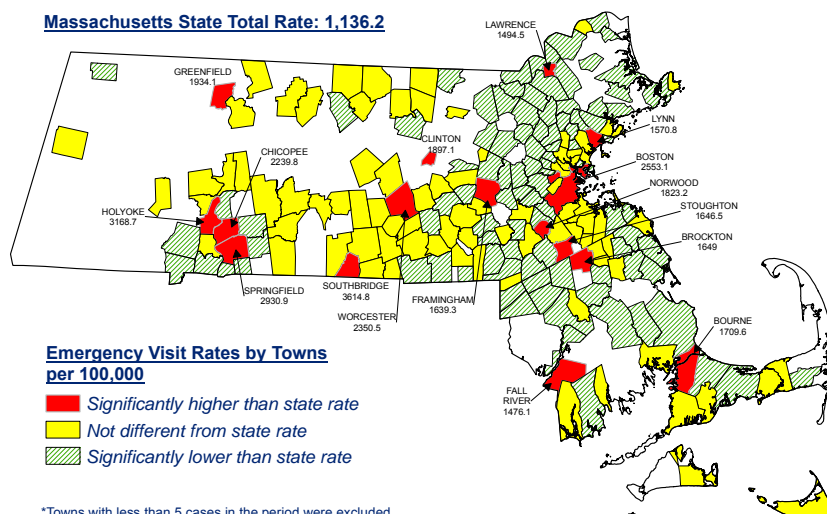


Statistically different from State ($p \leq .05$) Red (*) = Statistically higher; Green (**) = Statistically lower

Source: MDPH, Center for Environmental Health, Pediatric Asthma Surveillance (2005-2006)

Pediatric (Ages < 5) Asthma Emergency Department Visit Rates by Community Massachusetts: 2004-2005

Massachusetts State Total Rate: 1,136.2



*Towns with less than 5 cases in the period were excluded.

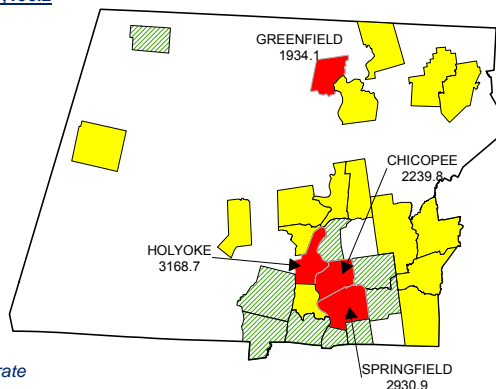
Source: Division of Health Care Finance and Policy. Calendar Year 2004-2005. Emergency Department Visits

Pediatric (Ages < 5) Asthma Emergency Department Visit Rates by Community Western Region: 2004-2005

Massachusetts State Total Rate: 1,136.2

Emergency Visit Rates by Towns per 100,000

- Significantly higher than state rate
- Not different from state rate
- Significantly lower than state rate



*Towns with less than 5 cases in the period were excluded.

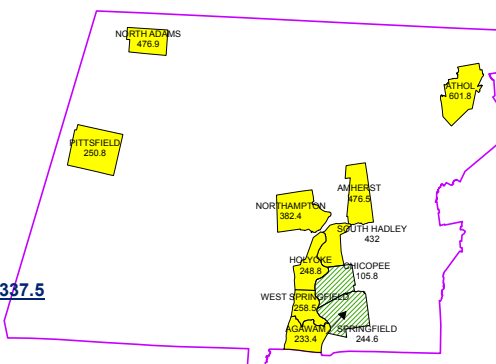
Source: Division of Health Care Finance and Policy. Calendar Year 2004-2005. Emergency Department Visits

Pediatric (Ages < 5) Asthma Hospitalization Rates by Community, Western Region: 2004-2005

Massachusetts State Total Rate: 337.5

Hospitalization Rates by Towns per 100,000

- Significantly higher than state rate
- Not different from state rate
- Significantly lower than state rate



*Towns with less than 5 cases in the period were excluded.

Source: Division of Health Care Finance and Policy. Calendar Year 2004-2005. Hospital Discharges

Summary Asthma Indicators by EOHHS Region, Massachusetts: 2005

250

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
Asthma Hospital Discharges (age-adjusted per100,000)	140.1	125.0	131.5	132.7	100.9	160.9	241.9
Asthma ER Visits (age-adjusted per100,000)	576.9	760.9	565.9	491.4	363.0	654.5	897.1
% Adults who currently have asthma (2005)	9.6	10.9	11.9	7.8	8.1	10.7	9.2
Asthma ER Visits Ages 0-14 (age-adjusted per100,000)	808	995	811	594	584	697	1,771



Statistically lower than state



Statistically higher than state

Summary Asthma Indicators Communities in Western Region: 2005

251

Indicator	MA Total	Western	Chicopee	Holyoke	Springfield
Asthma Hospital Discharges (age-adjusted per100,000)	140.1	125.0	118.8	320.9	260.5
Asthma ER Visits (age-adjusted per100,000)	576.9	760.9	645.6	1,372.8	1,454.2
% Adults who currently have asthma (2005)	9.6	10.9	NA	NA	NA
Asthma ER Visits Ages 0-14 (age-adjusted per100,000)	808	995	963.5	1,767.8	1,838.6



Statistically lower than state



Statistically higher than state

Summary Asthma Indicators Communities in Western Region: 2005

252

Indicator	MA Total	Western	Berkshires	Pittsfield
Asthma Hospital Discharges (age-adjusted per100,000)	140.1	125	96	166
Asthma ER Visits (age-adjusted per100,000)	576.9	761	824	1418
% Adults who currently have asthma (2005)	9.6	11	NA	NA
Asthma ER Visits Ages 0-14 (age-adjusted per100,000)	808	995	570	919



Statistically lower than state



Statistically higher than state

Summary Asthma Indicators by EOHHS Region, Massachusetts: 2005

253

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
Asthma ER Visits Ages 0-4 (age adjusted per100,000)	1,130	1,618	1,241	815	809	854	2,148
Asthma ER Visits Ages 5-9 (age adjusted per100,000)	775	831	761	608	582	687	1,812
Asthma ER Visits Ages 10-14 (age adjusted per100,000)	533	632	470	363	365	571	1,236
Pediatric Asthma Prevalence (2005-2006)	10.6	12.7	9.8	10.1	9.4	10.5	13.0



Statistically lower than state

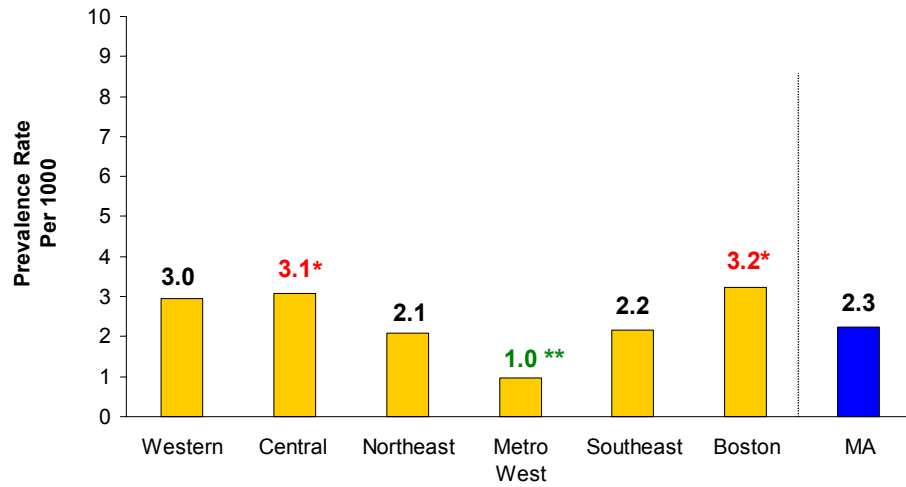


Statistically higher than state

OTHER HEALTH INDICATORS

Total Cases of Elevated Blood Lead Levels ($\geq 15 \mu\text{g/dL}$) by EOHHS Region Massachusetts: 2005

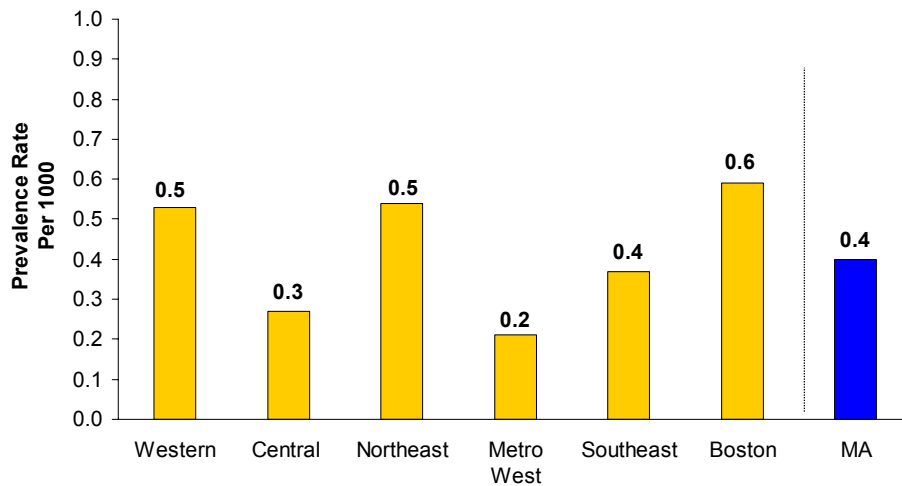
254



Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: MDPH, Childhood Lead Poisoning Prevention Program (CLPPP)

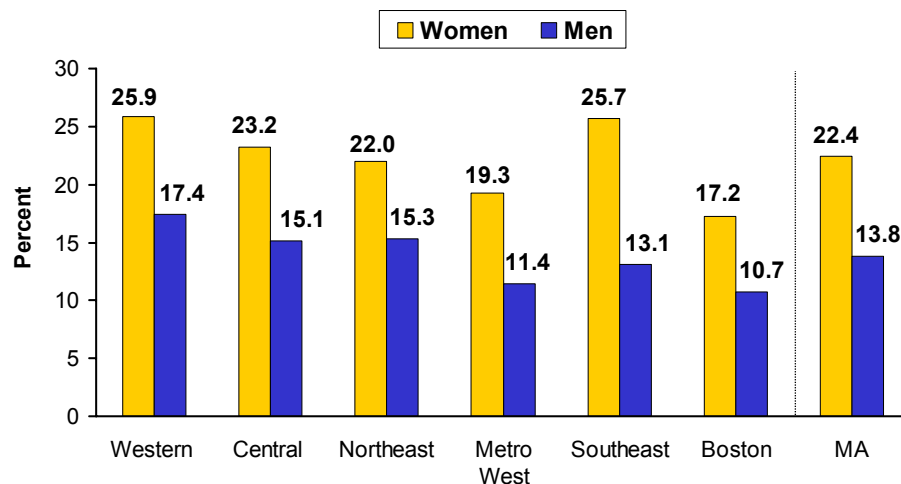
Lead Poisoning Prevalence Rates ($\text{BLL} \geq 25 \mu\text{g/dL}$) Children 9-48 Months by EOHHS Region, Massachusetts: 2006

255



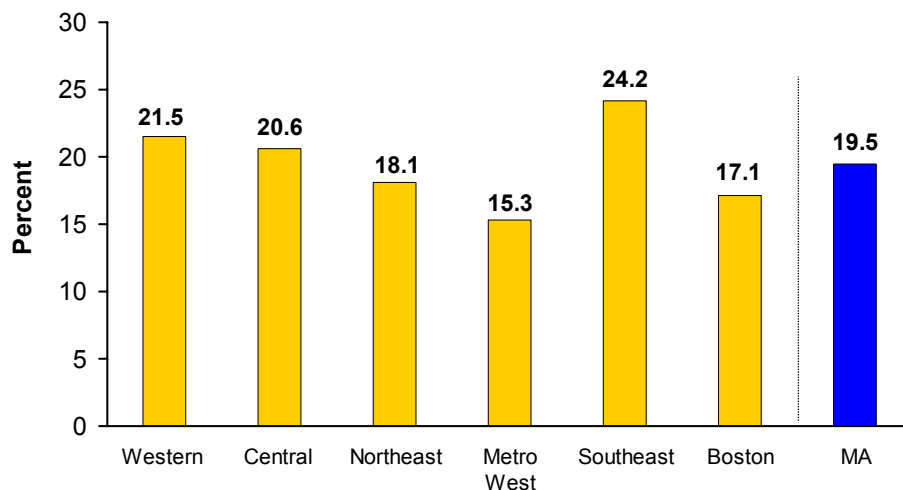
Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: MDPH, Childhood Lead Poisoning Prevention Program (CLPPP)

Adults who Report Experiencing Intimate Partner Violence by EOHHS Region and Gender Massachusetts: 2005 ²⁵⁶

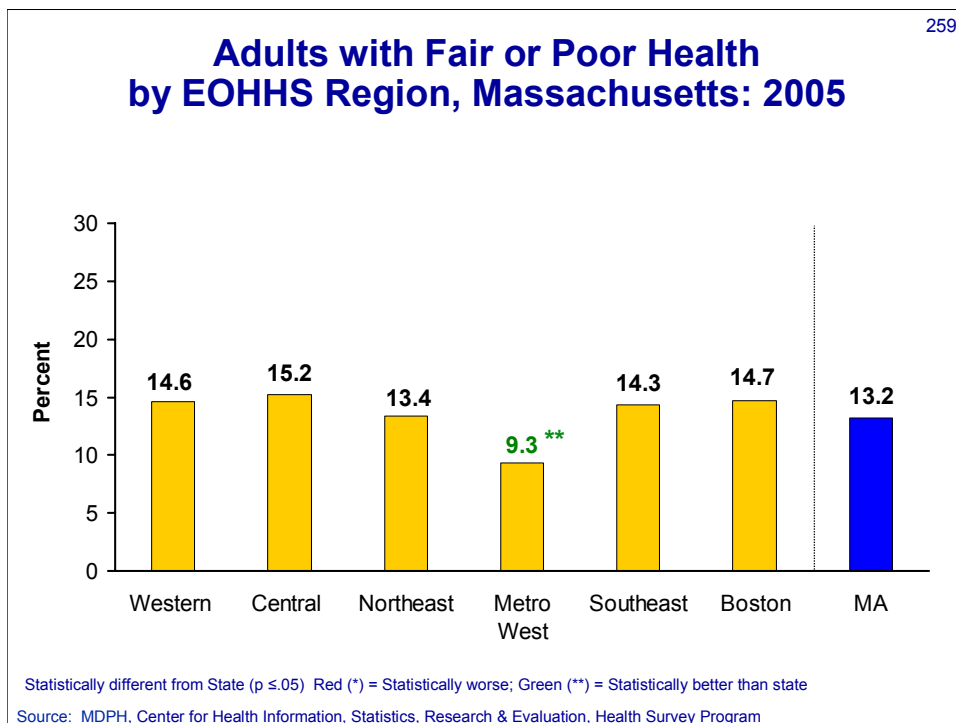
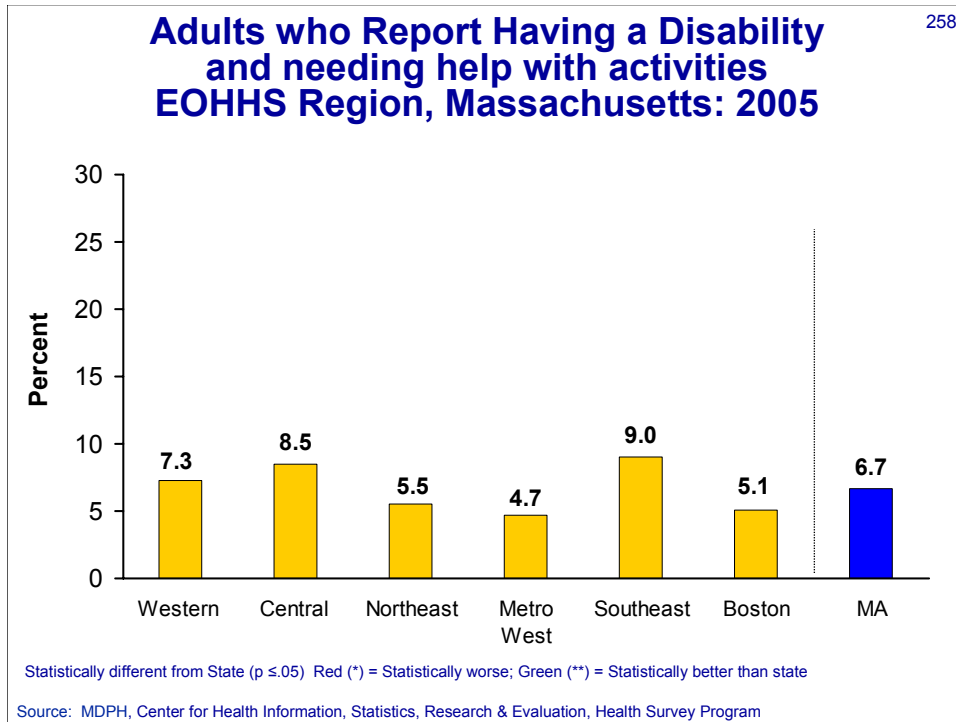


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Adults who Report Having a Disability by EOHHS Region, Massachusetts: 2005 ²⁵⁷

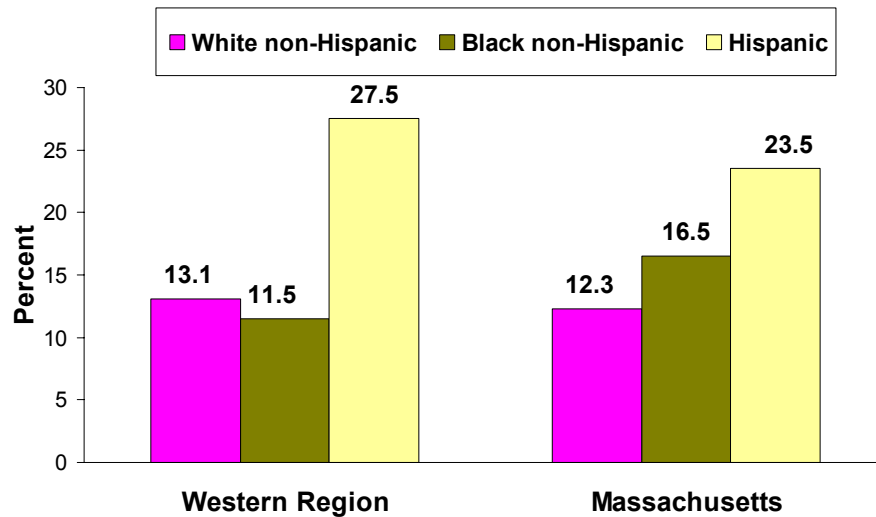


Statistically different from State ($p \leq .05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program



Adults who Reported Fair or Poor Health by Race and Ethnicity Western Region and Massachusetts: 2005

260

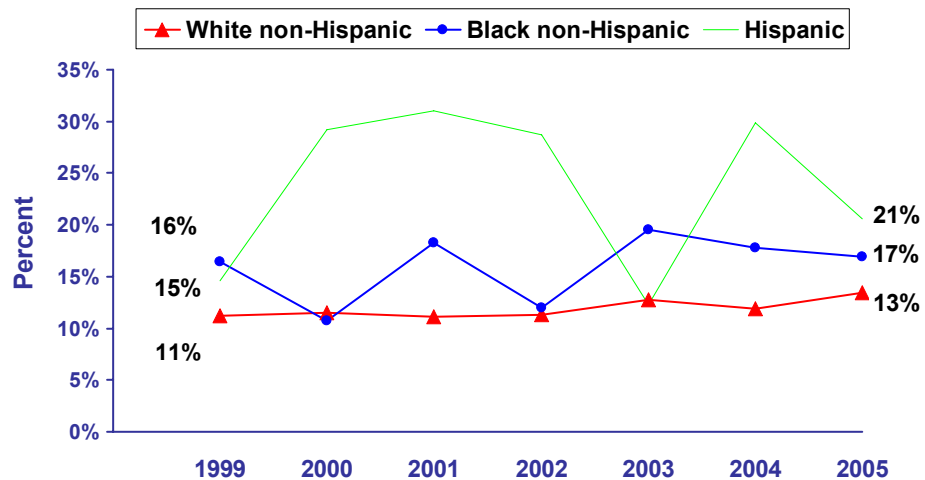


* Statistically Significantly different from state ($p \leq .05$)

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Adults who Reported Fair or Poor Health by Race and Ethnicity Western Region: 1999-2005

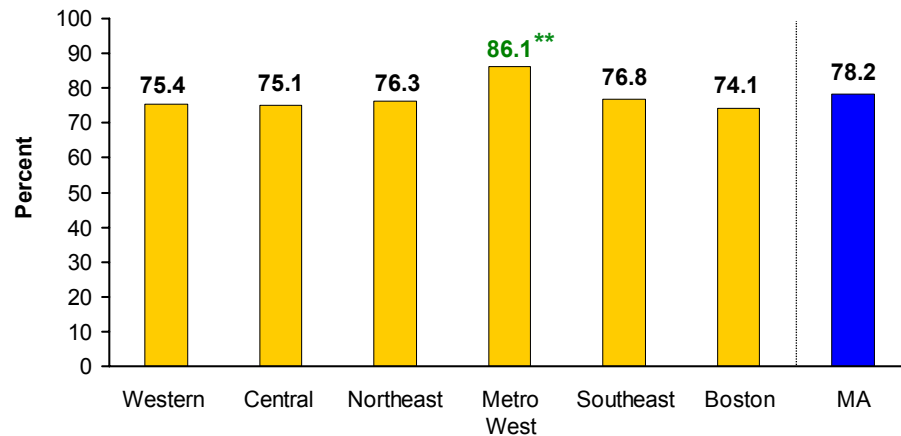
261



Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Adults who Visit a Dentist in Past Year by EOHHS Region, Massachusetts: 2004

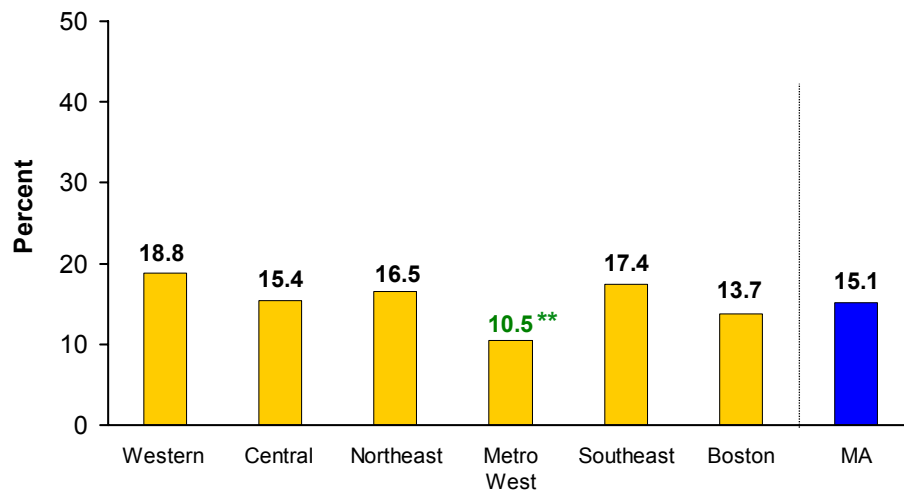
262



Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Adults who have lost 6 or more teeth to decay or disease by EOHHS Region, Massachusetts: 2004

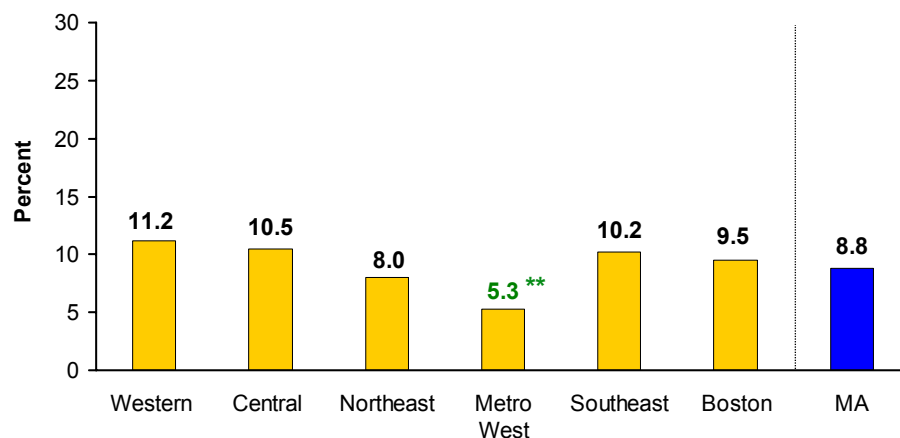
263



Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state
Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

264

Adults with Poor Mental Health for 15 or more days in Past Month by EOHHS Region Massachusetts: 2005



Statistically different from State ($p \leq 0.05$) Red (*) = Statistically worse; Green (**) = Statistically better than state

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

265

Summary Other Health Indicators by EOHHS Region

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
% Fair or Poor Health (2005)	13.2	14.6	15.2	13.4	9.3	14.3	14.7
Cases of Elevated Blood Lead levels (Percent of All Children Screened Per 1000, 2005)	2.3	2.9	3.1	2.1	1.0	2.2	3.2
% Visited Dentist Past Year (2004)	78.2	75.4	75.1	76.3	86.1	76.8	74.1
% 6+ Teeth Missing (2004)	15.1	18.8	15.4	16.5	10.5	17.4	13.7
% Poor Mental Health for 15 or more days in Past Month (2005)	8.8	11.2	10.5	8.0	5.3	10.2	9.5

Better Outcome (significantly different from state)
 Worse Outcome (significantly different from state)

Summary Other Health Indicators by EOHHS Region

266

Indicator	MA Total	Western	Central	North East	Metro West	South East	Boston
% Adults reporting having a disability (2005)	19.5	21.5	20.6	18.1	15.3	24.2	17.1
% Adults reporting having a disability and needing help with activities (2005)	6.7	7.3	8.5	5.5	4.7	9.0	5.1

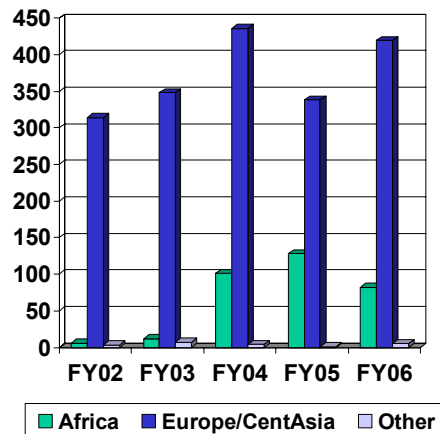
■ Better Outcome (significantly different from state)
 ■ Worse Outcome (significantly different from state)

Source: MDPH, Center for Health Information, Statistics, Research & Evaluation, Health Survey Program

Refugee Arrivals: Western Region Massachusetts: 2002-2006

267

- 2,204 refugees resettled over 5 years
- Increasing diversity in population
- 44% age ≤ 19 at arrival
- Cities/Towns with largest number of arrivals: Greenfield, Springfield, West Springfield, Westfield



Source: MDPH, Refugee and Immigrant Health Program and the Bureau of Communicable Disease Control Office of Integrated Surveillance and Informatics

Refugee Health Concerns: Western Region Massachusetts: 2002-2006

- High rates of latent TB infection (LTBI)
 - 1,843 refugees tested: 41% positive
 - Intensive follow-up in partnership with TB clinics, local health and DPH to assure testing, evaluation and treatment
 - Rapid assessment identifies active disease early to prevent spread
- Risk of lead poisoning among refugee children
 - 25 refugee children identified with elevated blood lead levels at arrival
 - Poor nutritional status puts children at risk of increased absorption of lead post-resettlement
- Need for bilingual, bicultural services to promote access to care

Source: MDPH, Refugee and Immigrant Health Program and the Bureau of Communicable Disease Control Office of Integrated Surveillance and Informatics

Summary Refugees by EOHHS Regions Massachusetts: 2002-2006

Indicator	Western	Central	North East	Metro West and Boston Regions
Refugee Arrivals	2,204	858	1,312	2,843
Largest Group	European and Central Asian	African	African and South East Asian	African
% refugees 19 years or less	44%	51%	45%	39%
Largest Cities	Greenfield, Springfield, West Springfield, Westfield	Worcester	Lowell, Lynn, Malden	Boston, Cambridge, Chelsea, Everett, Quincy, Revere, Somerville, Waltham
%TB Positive	41%	33%	44%	47%

Source: MDPH, Refugee and Immigrant Health Program and the Bureau of Communicable Disease Control Office of Integrated Surveillance and Informatics

Premature Mortality Rate (PMR)¹

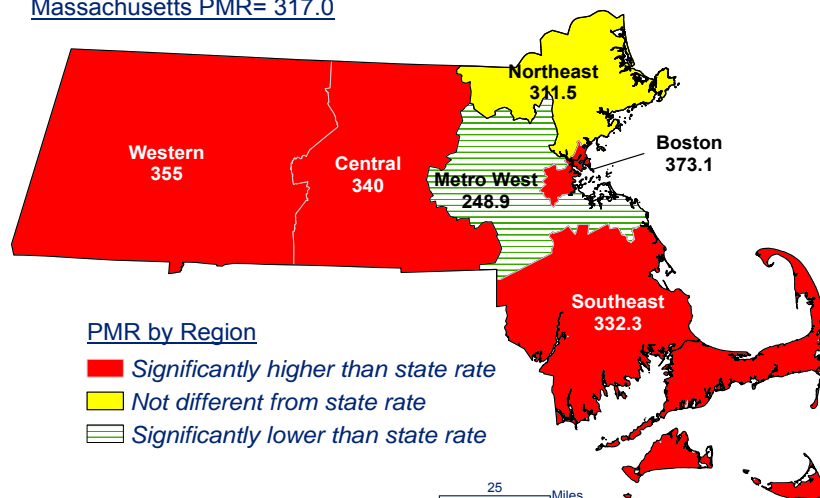
- **Definition**
 - deaths before age 75
- **Rationale**
 - two-thirds of deaths to persons ages 75+
 - vast majority of deaths to persons age 75+ are due to chronic conditions associated with aging
 - Focusing on deaths to persons less than 75 years may be more preventable
- **Summary health statistic**
 - excellent measure to reflect the health status of a population
 - used as a health status indicator that can be used to focus prevention initiatives and target programs

¹ Rates are per 100,000 population. Age-adjusted to the 2000 US standard population under 75 years of age.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Premature Mortality Rates (PMR) by Region Massachusetts: 2005

Massachusetts PMR= 317.0



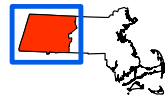
Rates are per 100,000 persons under 75 years of age, age-adjusted to the 2000 US standard population under 75 years of age.

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

PMR- Western Region by City/Town Massachusetts: 2005

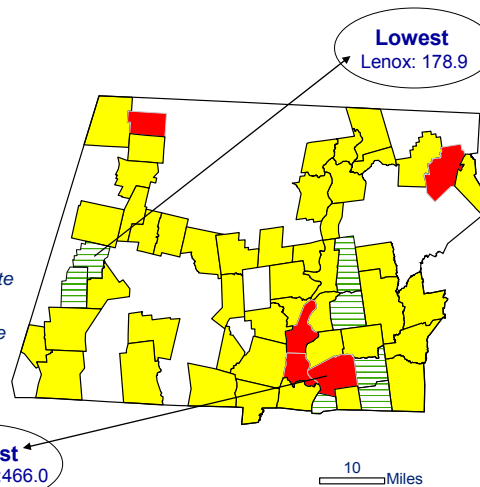
Massachusetts PMR= 317.0

Western Region PMR= 355.0



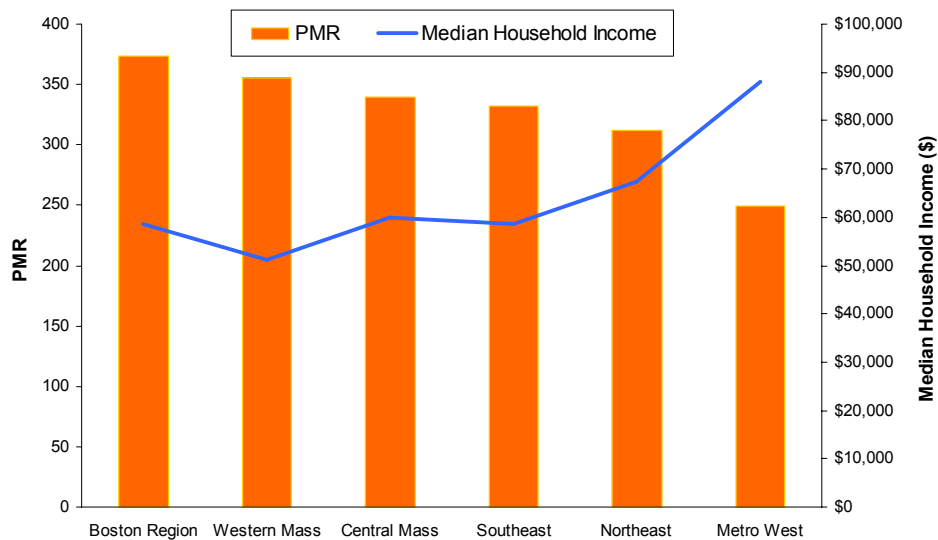
PMR by City/Town

- Significantly higher than state rate
- Not different from state rate
- Significantly lower than state rate
- Less than 5 premature deaths.



Rates are per 100,000 persons under 75 years of age, age-adjusted to the 2000 US standard population under 75 years of age.
Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

Median Household Income and PMR by EOHHS Regions, Massachusetts: 2005



Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program
State Median Household Income: \$66,365

Premature Mortality Rate (PMR) by EOHHS Region: 2005

	PMR
Massachusetts	317.0
Western Region	355.0
Chicopee	360.7
Holyoke	485.6
Springfield	466.0
Berkshires	336.9
Central Region	340.0
North East Region	311.5
Metro West Region	248.9
Southeast Region	332.3
Boston Region	373.1

 Better Outcome (significantly different from state)
  Worse Outcome (significantly different from state)

Source: MDPH, Health Information, Statistics, Research & Evaluation Bureau, Research & Epidemiology Program

SUMMARY

Summary- Berkshires

- The Berkshires has only 2 larger cities: Pittsfield (43,949) and North Adams (14,031).
- The race/ethnicity and age distributions of the Berkshires differ from the Western Region as a whole:
 - The Berkshires are 94% White Non-Hispanic
 - Higher proportion of older persons (65+)
- Some indicators are better than the state:
 - Lower hypertension hospital discharge rates
 - Heroin abuse treatment program admission rates are lower in Berkshires
 - HIV/AIDS deaths are lower in the Berkshires
 - Low firearm ER visit rate
 - Low HIV indicators (incidence and mortality)

Summary- Berkshires

Some indicators are worse than the State:

- Birth indicators worse than state (low breastfeeding rate, high teen birth rate, low adequacy of prenatal care, high public funding for prenatal care, high smoking during pregnancy)
- Higher proportion of Chronic Lower Respiratory Disease (formerly COPD) deaths
- Higher alcohol-related abuse treatment program admission rates in Berkshires
- Injuries such as motor vehicle-related and self-inflicted hospital discharge rates are higher in the Berkshires and especially in Pittsfield
- Higher emergency department visit rates for fall-related injuries in the Berkshires
- Higher incidence of Lyme disease in the Berkshires
- Higher rates of Chlamydia and gonorrhea in Pittsfield

Selected Health Disparities by Race/Ethnicity, Berkshires

- Blacks
 - Higher diabetes hospital discharge rates
 - Higher ER rate for children 0-14
- Whites
 - High teen birth rates
 - Higher rate of smoking during pregnancy
 - Higher motor vehicle ER visit rates

Summary- Western Region

- We need to examine local variation and subgroups in the population to get a more complete picture of the health of the Western region:
 - Socio-demographic indicators very different for largest cities:
 - Large Hispanic population in Holyoke and Springfield
 - Younger population in Holyoke and Springfield
 - SES lower in Chicopee, Holyoke and Springfield
- Some indicators are worse than the State :
 - Birth indicators poorer than state (low breastfeeding, high teen birth rate, low adequate prenatal care, high public funding for prenatal care, high smoking during pregnancy)
 - High diabetes hospitalizations
 - High Substance Abuse Treatment Program Admission rates Injuries such as TBI, motor vehicle-related, self inflicted and assault hospitalization rates are higher
 - High Emergency Department Visit rates for all injuries, firearm and fall-related
 - High motor vehicle-related mortality rate
 - High ER visit rates for asthma
- Some indicators are better than the State :
 - Low C-section
 - Low Cancer Incidence
 - Low HIV/AIDS mortality in Western region outside Springfield area

Summary- Western Region

We need to examine local variation and subgroups in the population to get a more complete picture of the health of the Western region.

Some indicators in largest cities are worse than the State:

- Higher homicide rate in Springfield
- Higher opioid ER visit rates in Holyoke
- Higher HIV/AIDS rates (incidence, persons living with disease and mortality) in Holyoke
- Higher HIV/AIDS rates (incidence and persons living with disease) in Springfield
- Higher rates of gonorrhea and Chlamydia incidence in Holyoke, Pittsfield and Springfield
- Higher pneumonia/influenza hospitalizations in Holyoke
- High asthma hospitalizations and ER visits in Holyoke and Springfield

Selected Health Disparities by Race/Ethnicity, Western Region

- Hispanics
 - Teen birth rates
 - Smoking during pregnancy
 - High Heart disease and Diabetes
 - Opioids ER visits
 - High hospitalizations rates for: TBI, self-inflicted injuries, MVA, assaults
 - High ER visits for firearm injuries, fall-related injuries, and asthma overall and for ages 0-14
 - High HIV Mortality
- Blacks
 - Smoking during pregnancy
 - Diabetes
 - High hospitalizations rates for motor vehicle-related injuries (MVA) and assaults
 - High ER visits for firearm injuries, fall-related injuries and asthma for ages 0-14
- Whites
 - Smoking during pregnancy
 - High hospitalizations rates for: MVA, fall-related injuries
 - High ER visits for fall-related and asthma

APPENDIX

REGIONS AND TOWNS

REGION	TOWN	COUNTY	CHNA
BOSTON	BOSTON	SUFFOLK	Alliance for Community Health
	BROOKLINE	NORFOLK	Alliance for Community Health
	CHELSEA	SUFFOLK	Alliance for Community Health
	REVERE	SUFFOLK	Alliance for Community Health
	WINTHROP	SUFFOLK	Alliance for Community Health
CENTRAL	ASHBURNHAM	WORCESTER	Fitchburg/Gardner CHN
	ASHBY	MIDDLESEX	Fitchburg/Gardner CHN
	AUBURN	WORCESTER	Community Wellness Coalition
	AYER	MIDDLESEX	Fitchburg/Gardner CHN
	BARRE	WORCESTER	Fitchburg/Gardner CHN
	BELLINGHAM	NORFOLK	Community Partners for Health
	BERLIN	WORCESTER	Fitchburg/Gardner CHN
	BLACKSTONE	WORCESTER	Community Partners for Health
	BOLTON	WORCESTER	Fitchburg/Gardner CHN
	BOYLSTON	WORCESTER	Community Wellness Coalition
	BRIMFIELD	HAMPDEN	CHN of Southern Worcester County
	BROOKFIELD	WORCESTER	CHN of Southern Worcester County
	CHARLTON	WORCESTER	CHN of Southern Worcester County
	CLINTON	WORCESTER	Fitchburg/Gardner CHN
	DOUGLAS	WORCESTER	Community Partners for Health
	DUDLEY	WORCESTER	CHN of Southern Worcester County
	EAST BROOKFIELD	WORCESTER	CHN of Southern Worcester County
	FITCHBURG	WORCESTER	Fitchburg/Gardner CHN
	FRANKLIN	NORFOLK	Community Partners for Health
	GARDNER	WORCESTER	Fitchburg/Gardner CHN
	GRAFTON	WORCESTER	Community Wellness Coalition
	GROTON	MIDDLESEX	Fitchburg/Gardner CHN
	HARDWICK	WORCESTER	Fitchburg/Gardner CHN
	HARVARD	WORCESTER	Fitchburg/Gardner CHN
	HOLDEN	WORCESTER	Community Wellness Coalition
	HOLLAND	HAMPDEN	CHN of Southern Worcester County
	HOPEDALE	WORCESTER	Community Partners for Health
	HUBBARDSTON	WORCESTER	Fitchburg/Gardner CHN
	LANCASTER	WORCESTER	Fitchburg/Gardner CHN
	LEICESTER	WORCESTER	Community Wellness Coalition
	LEOMINSTER	WORCESTER	Fitchburg/Gardner CHN
	LUNENBURG	WORCESTER	Fitchburg/Gardner CHN
	MEDWAY	NORFOLK	Community Partners for Health
	MENDON	WORCESTER	Community Partners for Health
	MILFORD	WORCESTER	Community Partners for Health
	MILLBURY	WORCESTER	Community Wellness Coalition
	MILLVILLE	WORCESTER	Community Partners for Health
	NEW BRAINTREE	WORCESTER	Fitchburg/Gardner CHN
	NORTH BROOKFIELD	WORCESTER	CHN of Southern Worcester County
	NORTHBRIDGE	WORCESTER	Community Partners for Health
	OAKHAM	WORCESTER	Fitchburg/Gardner CHN
	OXFORD	WORCESTER	CHN of Southern Worcester County

	PAXTON PEPPERELL PRINCETON RUTLAND SHIRLEY SHREWSBURY SOUTHBRIDGE SPENCER STERLING STURBRIDGE SUTTON TEMPLETON TOWNSEND UPTON UXBRIDGE WALES WARREN WEBSTER WEST BOYLSTON WEST BROOKFIELD WESTMINSTER WINCHENDON WORCESTER	WORCESTER MIDDLESEX WORCESTER WORCESTER MIDDLESEX WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER MIDDLESEX WORCESTER WORCESTER HAMPDEN WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER WORCESTER	Community Wellness Coalition Fitchburg/Gardner CHN Fitchburg/Gardner CHN Fitchburg/Gardner CHN Fitchburg/Gardner CHN Community Wellness Coalition CHN of Southern Worcester County CHN of Southern Worcester County Fitchburg/Gardner CHN CHN of Southern Worcester County Community Partners for Health Fitchburg/Gardner CHN Fitchburg/Gardner CHN Community Partners for Health Community Partners for Health CHN of Southern Worcester County CHN of Southern Worcester County CHN of Southern Worcester County Community Wellness Coalition CHN of Southern Worcester County Fitchburg/Gardner CHN Fitchburg/Gardner CHN Community Wellness Coalition
METRO WEST	ACTON ARLINGTON ASHLAND BEDFORD BELMONT BOXBOROUGH BRAINTREE BURLINGTON CAMBRIDGE CANTON CARLISLE COHASSET CONCORD DEDHAM DOVER FOXBOROUGH FRAMINGHAM HINGHAM HOLLISTON HOPKINTON HUDSON HULL LEXINGTON LINCOLN LITTLETON MARLBOROUGH MAYNARD	MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX NORFOLK MIDDLESEX MIDDLESEX NORFOLK MIDDLESEX NORFOLK NORFOLK NORFOLK NORFOLK MIDDLESEX PLYMOUTH MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX MIDDLESEX	Greater Woburn/Concord/Littleton CHN Greater Cambridge/Somerville CHN CHN of Greater Metro West Greater Woburn/Concord/Littleton CHN Greater Cambridge/Somerville CHN Greater Woburn/Concord/Littleton CHN Blue Hills Community Health Alliance Greater Woburn/Concord/Littleton CHN Greater Cambridge/Somerville CHN Blue Hills Community Health Alliance Greater Woburn/Concord/Littleton CHN Blue Hills Community Health Alliance Greater Woburn/Concord/Littleton CHN West Suburban Health Network West Suburban Health Network CHN of Greater Metro West CHN of Greater Metro West Blue Hills Community Health Alliance CHN of Greater Metro West CHN of Greater Metro West CHN of Greater Metro West Blue Hills Community Health Alliance Greater Woburn/Concord/Littleton CHN Greater Woburn/Concord/Littleton CHN Greater Woburn/Concord/Littleton CHN CHN of Greater Metro West CHN of Greater Metro West

	MEDFIELD MILLIS MILTON NATICK NEEDHAM NEWTON NORFOLK NORTHBOROUGH NORWELL NORWOOD PLAINVILLE QUINCY RANDOLPH SCITUATE SHARON SHERBORN SOMERVILLE SOUTHBOROUGH STOW SUDBURY WALPOLE WALTHAM WATERTOWN WAYLAND WELLESLEY WESTBOROUGH WESTON WESTWOOD WEYMOUTH WILMINGTON WINCHESTER WOBURN WRENTHAM	NORFOLK NORFOLK NORFOLK MIDDLESEX NORFOLK MIDDLESEX NORFOLK WORCESTER PLYMOUTH NORFOLK NORFOLK NORFOLK NORFOLK PLYMOUTH NORFOLK MIDDLESEX MIDDLESEX WORCESTER MIDDLESEX MIDDLESEX NORFOLK MIDDLESEX MIDDLESEX MIDDLESEX NORFOLK WORCESTER MIDDLESEX NORFOLK NORFOLK MIDDLESEX MIDDLESEX MIDDLESEX NORFOLK	CHN of Greater Metro West CHN of Greater Metro West Blue Hills Community Health Alliance CHN of Greater Metro West West Suburban Health Network West Suburban Health Network CHN of Greater Metro West CHN of Greater Metro West Blue Hills Community Health Alliance Blue Hills Community Health Alliance CHN of Greater Metro West Blue Hills Community Health Alliance Blue Hills Community Health Alliance Blue Hills Community Health Alliance Blue Hills Community Health Alliance CHN of Greater Metro West Greater Cambridge/Somerville CHN CHN of Greater Metro West CHN of Greater Metro West CHN of Greater Metro West CHN of Greater Metro West West Suburban Health Network Greater Cambridge/Somerville CHN CHN of Greater Metro West West Suburban Health Network CHN of Greater Metro West West Suburban Health Network West Suburban Health Network Blue Hills Community Health Alliance Greater Woburn/Concord/Littleton CHN Greater Woburn/Concord/Littleton CHN Greater Woburn/Concord/Littleton CHN CHN of Greater Metro West
NORTHEAST	AMESBURY ANDOVER BEVERLY BILLERICA BOXFORD CHELMSFORD DANVERS DRACUT DUNSTABLE ESSEX EVERETT GEORGETOWN GLOUCESTER GROVELAND HAMILTON HAVERHILL IPSWICH	ESSEX ESSEX ESSEX MIDDLESEX ESSEX MIDDLESEX ESSEX MIDDLESEX MIDDLESEX ESSEX MIDDLESEX ESSEX ESSEX ESSEX ESSEX ESSEX ESSEX ESSEX ESSEX	Greater Haverhill CHN Greater Lawrence CHN Community Health Network North Greater Lowell CHN Greater Haverhill CHN Greater Lowell CHN North Shore CHN Greater Lowell CHN Greater Lowell CHN Community Health Network North North Suburban Health Alliance Greater Haverhill CHN Community Health Network North Greater Haverhill CHN Community Health Network North Greater Haverhill CHN Community Health Network North

	LAWRENCE LOWELL LYNN LYNNFIELD MALDEN MANCHESTER MARBLEHEAD MEDFORD MELROSE MERRIMAC METHUEN MIDDLETON NAHANT NEWBURY NEWBURYPORT NORTH ANDOVER NORTH READING PEABODY READING ROCKPORT ROWLEY SALEM SALISBURY SAUGUS STONEHAM SWAMPSCOTT TEWKSBURY TOPSFIELD TYNGSBOROUGH WAKEFIELD WENHAM WEST NEWBURY WESTFORD	ESSEX MIDDLESEX ESSEX ESSEX MIDDLESEX ESSEX ESSEX MIDDLESEX MIDDLESEX ESSEX ESSEX ESSEX ESSEX ESSEX ESSEX ESSEX MIDDLESEX ESSEX MIDDLESEX ESSEX ESSEX ESSEX ESSEX MIDDLESEX ESSEX MIDDLESEX MIDDLESEX ESSEX ESSEX MIDDLESEX	Greater Lawrence CHN Greater Lowell CHN North Shore CHN North Shore CHN North Suburban Health Alliance Community Health Network North North Shore CHN North Suburban Health Alliance North Suburban Health Alliance Greater Haverhill CHN Greater Lawrence CHN Greater Lawrence CHN North Shore CHN Greater Haverhill CHN Greater Haverhill CHN Greater Lawrence CHN North Suburban Health Alliance North Shore CHN North Suburban Health Alliance Community Health Network North Greater Haverhill CHN North Shore CHN Greater Haverhill CHN North Shore CHN North Suburban Health Alliance North Shore CHN Greater Lowell CHN Community Health Network North Greater Lowell CHN North Suburban Health Alliance Community Health Network North Greater Haverhill CHN Greater Lowell CHN
SOUTHEAST	ABINGTON ACUSHNET ATTLEBORO AVON BARNSTABLE BERKLEY BOURNE BREWSTER BRIDGEWATER BROCKTON CARVER CHATHAM CHILMARK DARTMOUTH DENNIS DIGHTON DUXBURY	PLYMOUTH BRISTOL BRISTOL NORFOLK BARNSTABLE BRISTOL BARNSTABLE BARNSTABLE PLYMOUTH PLYMOUTH PLYMOUTH BARNSTABLE DUKES BRISTOL BARNSTABLE BRISTOL PLYMOUTH	Greater Brockton CHN Greater New Bedford CHN Health & Education Response Greater Brockton CHN Cape and Islands CHN Health & Education Response Cape and Islands CHN Cape and Islands CHN Greater Brockton CHN Greater Brockton CHN South Shore Community Partners in Prevention Cape and Islands CHN Cape and Islands CHN Greater New Bedford CHN Cape and Islands CHN Health & Education Response South Shore Community Partners in Prevention

EAST BRIDGEWATER	PLYMOUTH	Greater Brockton CHN
EASTHAM	BARNSTABLE	Cape and Islands CHN
EASTON	BRISTOL	Greater Brockton CHN
EDGARTOWN	DUKES	Cape and Islands CHN
FAIRHAVEN	BRISTOL	Greater New Bedford CHN
FALL RIVER	BRISTOL	Partners for a Healthier Community
FALMOUTH	BARNSTABLE	Cape and Islands CHN
FREETOWN	BRISTOL	Greater New Bedford CHN
GAY HEAD	DUKES	Cape and Islands CHN
GOSNOLD	DUKES	Cape and Islands CHN
HALIFAX	PLYMOUTH	South Shore Community Partners in Prevention
HANOVER	PLYMOUTH	South Shore Community Partners in Prevention
HANSON	PLYMOUTH	South Shore Community Partners in Prevention
HARWICH	BARNSTABLE	Cape and Islands CHN
HOLBROOK	NORFOLK	Greater Brockton CHN
KINGSTON	PLYMOUTH	South Shore Community Partners in Prevention
LAKEVILLE	PLYMOUTH	Health & Education Response
MANSFIELD	BRISTOL	Health & Education Response
MARION	PLYMOUTH	Greater New Bedford CHN
MARSHFIELD	PLYMOUTH	South Shore Community Partners in Prevention
MASHPEE	BARNSTABLE	Cape and Islands CHN
MATTAPOISETT	PLYMOUTH	Greater New Bedford CHN
MIDDLEBOROUGH	PLYMOUTH	Health & Education Response
NANTUCKET	NANTUCKET	Cape and Islands CHN
NEW BEDFORD	BRISTOL	Greater New Bedford CHN
NORTH ATTLEBORO	BRISTOL	Health & Education Response
NORTON	BRISTOL	Health & Education Response
OAK BLUFFS	DUKES	Cape and Islands CHN
ORLEANS	BARNSTABLE	Cape and Islands CHN
PEMBROKE	PLYMOUTH	South Shore Community Partners in Prevention
PLYMOUTH	PLYMOUTH	South Shore Community Partners in Prevention
PLYMPTON	PLYMOUTH	South Shore Community Partners in Prevention
PROVINCETOWN	BARNSTABLE	Cape and Islands CHN
RAYNHAM	BRISTOL	Health & Education Response
REHOBOTH	BRISTOL	Health & Education Response
ROCHESTER	PLYMOUTH	Greater New Bedford CHN
ROCKLAND	PLYMOUTH	South Shore Community Partners in Prevention
SANDWICH	BARNSTABLE	Cape and Islands CHN
SEEKONK	BRISTOL	Health & Education Response
SOMERSET	BRISTOL	Partners for a Healthier Community
STOUGHTON	NORFOLK	Greater Brockton CHN
SWANSEA	BRISTOL	Partners for a Healthier Community
TAUNTON	BRISTOL	Health & Education Response
TISBURY	DUKES	Cape and Islands CHN
TRURO	BARNSTABLE	Cape and Islands CHN
WAREHAM	PLYMOUTH	Greater New Bedford CHN
WELLFLEET	BARNSTABLE	Cape and Islands CHN
WEST BRIDGEWATER	PLYMOUTH	Greater Brockton CHN
WEST TISBURY	DUKES	Cape and Islands CHN
WESTPORT	BRISTOL	Partners for a Healthier Community

	WHITMAN YARMOUTH	PLYMOUTH BARNSTABLE	Greater Brockton CHN Cape and Islands CHN
WESTERN	ADAMS AGAWAM ALFORD AMHERST ASHFIELD ATHOL BECKET BELCHERTOWN BERNARDSTON BLANDFORD BUCKLAND CHARLEMONT CHESHIRE CHESTER CHESTERFIELD CHICOPEE CLARKSBURG COLRAIN CONWAY CUMMINGTON DALTON DEERFIELD EAST LONGMEADOW EASTHAMPTON EGREMONT ERVING FLORIDA GILL GOSHEN GRANBY GRANVILLE GREAT BARRINGTON GREENFIELD HADLEY HAMPDEN HANCOCK HATFIELD HAWLEY HEATH HINSDALE HOLYOKE HUNTINGTON LANESBOROUGH LEE LENOX LEVERETT LEYDEN LONGMEADOW	BERKSHIRE HAMPDEN BERKSHIRE HAMPSHIRE FRANKLIN WORCESTER BERKSHIRE HAMPSHIRE FRANKLIN HAMPDEN FRANKLIN FRANKLIN BERKSHIRE HAMPDEN HAMPSHIRE HAMPDEN BERKSHIRE FRANKLIN FRANKLIN HAMPSHIRE BERKSHIRE FRANKLIN HAMPDEN HAMPSHIRE BERKSHIRE FRANKLIN HAMPSHIRE HAMPDEN HAMPSHIRE FRANKLIN BERKSHIRE FRANKLIN HAMPSHIRE HAMPSHIRE HAMPDEN BERKSHIRE FRANKLIN HAMPSHIRE HAMPDEN BERKSHIRE HAMPSHIRE FRANKLIN FRANKLIN BERKSHIRE HAMPDEN HAMPSHIRE BERKSHIRE BERKSHIRE FRANKLIN FRANKLIN HAMPDEN HAMPSHIRE BERKSHIRE BERKSHIRE FRANKLIN FRANKLIN HAMPDEN	CHN of Berkshire The Community Health Connection CHN of Berkshire Partnership for Health in Hampshire County Upper Valley Health Web Upper Valley Health Web CHN of Berkshire Partnership for Health in Hampshire County Upper Valley Health Web The Community Health Connection Upper Valley Health Web Upper Valley Health Web CHN of Berkshire Four (For) Communities Partnership for Health in Hampshire County Four (For) Communities CHN of Berkshire Upper Valley Health Web Upper Valley Health Web Partnership for Health in Hampshire County CHN of Berkshire Upper Valley Health Web The Community Health Connection CHN of Berkshire Upper Valley Health Web Partnership for Health in Hampshire County Partnership for Health in Hampshire County The Community Health Connection CHN of Berkshire Upper Valley Health Web Partnership for Health in Hampshire County The Community Health Connection CHN of Berkshire Partnership for Health in Hampshire County Upper Valley Health Web Upper Valley Health Web CHN of Berkshire Four (For) Communities Four (For) Communities CHN of Berkshire CHN of Berkshire CHN of Berkshire Upper Valley Health Web Upper Valley Health Web CHN of Berkshire Four (For) Communities CHN of Berkshire Upper Valley Health Web Upper Valley Health Web The Community Health Connection

LUDLOW	HAMPDEN	Four (For) Communities
MIDDLEFIELD	HAMPSHIRE	Partnership for Health in Hampshire County
MONROE	FRANKLIN	Upper Valley Health Web
MONSON	HAMPDEN	The Community Health Connection
MONTAGUE	FRANKLIN	Upper Valley Health Web
MONTEREY	BERKSHIRE	CHN of Berkshire
MONTGOMERY	HAMPDEN	The Community Health Connection
MOUNT WASHINGTON	BERKSHIRE	CHN of Berkshire
NEW ASHFORD	BERKSHIRE	CHN of Berkshire
NEW MARLBOROUGH	BERKSHIRE	CHN of Berkshire
NEW SALEM	FRANKLIN	Upper Valley Health Web
NORTH ADAMS	BERKSHIRE	CHN of Berkshire
NORTHAMPTON	HAMPSHIRE	Partnership for Health in Hampshire County
NORTHFIELD	FRANKLIN	Upper Valley Health Web
ORANGE	FRANKLIN	Upper Valley Health Web
OTIS	BERKSHIRE	CHN of Berkshire
PALMER	HAMPDEN	The Community Health Connection
PELHAM	HAMPSHIRE	Partnership for Health in Hampshire County
PERU	BERKSHIRE	CHN of Berkshire
PETERSHAM	WORCESTER	Upper Valley Health Web
PHILLIPSTON	WORCESTER	Upper Valley Health Web
PITTSFIELD	BERKSHIRE	CHN of Berkshire
PLAINFIELD	HAMPSHIRE	Partnership for Health in Hampshire County
RICHMOND	BERKSHIRE	CHN of Berkshire
ROWE	FRANKLIN	Upper Valley Health Web
ROYALSTON	WORCESTER	Upper Valley Health Web
RUSSELL	HAMPDEN	The Community Health Connection
SANDISFIELD	BERKSHIRE	CHN of Berkshire
SAVOY	BERKSHIRE	CHN of Berkshire
SHEFFIELD	BERKSHIRE	CHN of Berkshire
SHELBURNE	FRANKLIN	Upper Valley Health Web
SHUTESBURY	FRANKLIN	Upper Valley Health Web
SOUTH HADLEY	HAMPSHIRE	Partnership for Health in Hampshire County
SOUTHAMPTON	HAMPSHIRE	Partnership for Health in Hampshire County
SOUTHWICK	HAMPDEN	The Community Health Connection
SPRINGFIELD	HAMPDEN	The Community Health Connection
STOCKBRIDGE	BERKSHIRE	CHN of Berkshire
SUNDERLAND	FRANKLIN	Upper Valley Health Web
TOLLAND	HAMPDEN	The Community Health Connection
TYRINGHAM	BERKSHIRE	CHN of Berkshire
WARE	HAMPSHIRE	Partnership for Health in Hampshire County
WARWICK	FRANKLIN	Upper Valley Health Web
WASHINGTON	BERKSHIRE	CHN of Berkshire
WENDELL	FRANKLIN	Upper Valley Health Web
WEST SPRINGFIELD	HAMPDEN	The Community Health Connection
WEST STOCKBRIDGE	BERKSHIRE	CHN of Berkshire
WESTFIELD	HAMPDEN	Four (For) Communities
WESTHAMPTON	HAMPSHIRE	Partnership for Health in Hampshire County
WHATELY	FRANKLIN	Upper Valley Health Web
WILBRAHAM	HAMPDEN	The Community Health Connection

	WILLIAMSBURG WILLIAMSTOWN WINDSOR WORTHINGTON	HAMPSHIRE BERKSHIRE BERKSHIRE HAMPSHIRE	Partnership for Health in Hampshire County CHN of Berkshire CHN of Berkshire Partnership for Health in Hampshire County
--	--	--	--

DATA SOURCES

Massachusetts Division of Health Care Finance and Policy

MDPH, Bureau of Communicable Disease Control

MDPH, Bureau of Substance Abuse Services

MDPH, Environmental Health Bureau

MDPH, Health Information, Statistics, Research & Evaluation Bureau

SAMHSA, Office of Applied Studies